Floods of April–May 1958 in Louisiana and Adjacent States

GEOLOGICAL SURVEY WATER-SUPPLY PAPER 1660-A

Prepared in cooperation with the States of Louisiana, Arkansas, Mississippi, Oklahoma, and Texas, and with agencies of the Federal Government



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By RUFUS P. SMITH FLOODS OF 1958

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UNITED STATES DEPARTMENT OF THE INTERIOR STEWART L. UDALL, Secretary

GEOLOGICAL SURVEY
Thomas B. Nolan, Director

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FLOODS OF 1958

FLOODS OF APRIL-MAY 1958 IN LOUISIANA AND ADJACENT STATES

By Rufus P. Smith

ABSTRACT

Heavy rains started on April 24 or 25, continued intermittently through May 3 or 4, and fell on an area 50 miles wide extending from Mt. Pleasant, Tex., eastward to the Mississippi River. The two periods of heaviest rainfall were April 24–26 and April 28–May 1; the maximum 24-hour rainfall recorded was 10.65 inches at El Dorado, Ark., on April 26.

Many streams reached the maximum discharge for the period of record. The stage or discharge, or both, exceeded the previous maxima at 39 stream-gaging stations. Cornie Bayou and Three Creek near Three Creeks, Ark., reached the highest stage since at least 1880. Boggy Creek near Daingerfield, Tex., reached the highest stage since 1900. Because the second storm period followed the first so closely, many streams had only a single flood peak.

Three lives were lost in Louisiana. Damage amounted to about \$25 million, mostly to crops and agricultural land.

Flood-frequency studies indicate that at 19 locations the peak discharge during the floods of April-May 1958 had a recurrence interval well in excess of 50 years (2 percent probability of occurring in any one year). The peak discharge of Chemin a Haut Bayou near Beekman, La., was 7.6 times the discharge for a 50-year flood and 12.4 times the discharge of the mean annual flood.

The present report supplies hydrologic data needed for detailed planning of projects in which studies of flood volumes and discharge rates are essential parts. The report includes a general description of the floods; precipitation information; detailed streamflow records at 112 sites; crest stages along the lower Red River, the Ouachita River, and at several other locations; and flood-frequency relationships in parts of the flood area. The area covered in the report includes southern Arkansas, northern Louisiana, southeastern Oklahoma, northeastern Texas, and west-central Mississippi.

INTRODUCTION

Northern Louisiana and southern Arkansas received extremely heavy rains in late April and early May 1958. The rains extended into southeastern Oklahoma, northeastern Texas, and west-central Mississippi and produced moderately high stages on streams in these areas. Of the 28 stream-gaging stations operated by the Geological Survey in northern Louisiana, 21 reached a maximum stage or discharge, or both, for the period of record. Stages on some eastern tributaries of the Ouachita River, however, were several feet lower than those during the historic Mississippi River flood of April-May 1927, when stages were affected by backwater.

This report was written to record and preserve data on flood volumes and peak discharge necessary for studies of floods of magnitudes

similar to those of April-May 1958. It supplements the data published in the annual series of reports on surface-water supply and contains more detailed information on streamflow, a discussion of the precipitation, a summary and comparison with past floods, tabulations

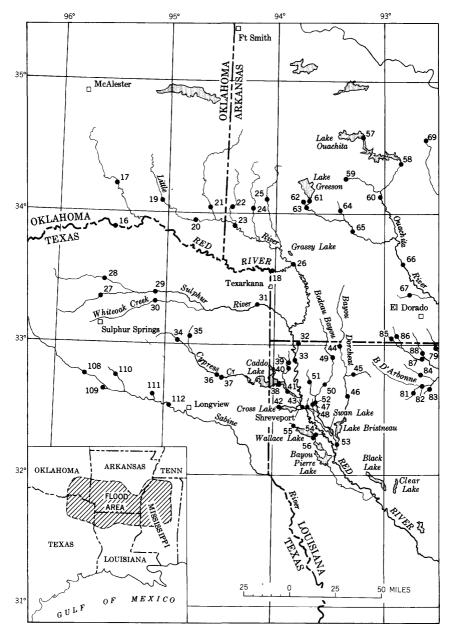
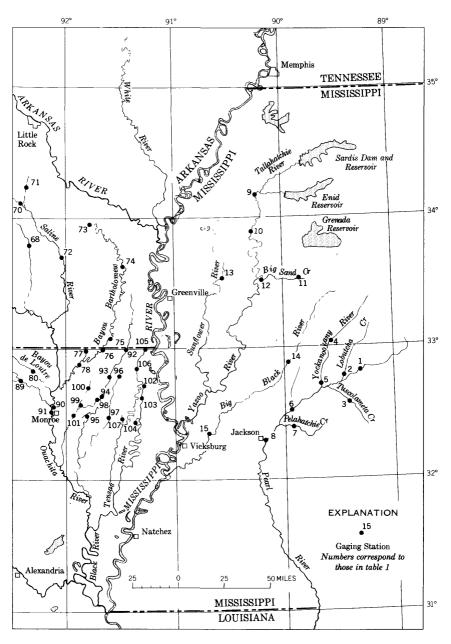


FIGURE 1.-Index map of area, showing

of crest stages on the Red and Ouachita Rivers and at a number of other locations, and other related data.

Figure 1 shows the area covered by this report and the location of the 112 sites for which flood data are presented.



location of flood determination points.

The investigation of surface-water resources in the area covered by this report is a continuous program of the Geological Survey in cooperation with the States of Louisiana, Arkansas, Mississippi, Texas, and Oklahoma, and with the U.S. Army Corps of Engineers and other Federal or local agencies. The U.S. Weather Bureau and several State, municipal, and private organizations furnished some data or information included in this report and appropriate acknowledgement is made in the text.

Data were collected and compiled in the district offices of the Surface Water Branch under supervision of the following district engineers: F. N. Hansen, Louisiana; J. L. Saunders, Arkansas; W. H. Robinson, Mississippi; Trigg Twitchell, Texas; and A. A. Fischback, Jr., Oklahoma. The compilation of the data and the assembly of the report were coordinated by H. F. Matthai, Flood Specialist.

PRECIPITATION

Antecedent rainfall in the area covered by this report was much below normal in February 1958 and from near normal to much above normal during March. Storms on April 8-9, April 13-14, and April 19-20 brought light precipitation to most of the area, but this antecedent moisture had little effect on the flood runoff.

Excessively heavy rains began late on April 24 or early on April 25 and continued intermittently until May 3 or 4. The two periods of heaviest rainfall were April 24–26 and April 28–May 1. Weather Bureau records show that the greatest amount of rainfall during the 8-day period April 24–May 1 was 19.58 inches at Haynesville, La. Several of the larger amounts of rainfall are given in the following table.

Location	Precipitation, in inches, for indicated dates			
2508401	April 24–27	April 28- May 1	April 24- May 1	
Haynesville, La. Hamburg, Ark. El Dorado, Ark. Stamps, Ark. Linden, Tex. Daingerfield, 9S, Tex. Rosedale, Miss.	11. 40 14. 76 14. 34 13. 25 8. 31 10. 02 5. 28	8. 18 4. 27 4. 10 4. 88 8. 37 6. 58 9. 93	19. 58 19. 03 18. 44 18. 13 16. 68 16. 60 15. 21	

The maximum 24-hour rainfall reported was 10.65 inches at El Dorado, Ark., on April 26. Isohyetal maps based on Weather Bureau records for April 24–27 and April 24–May 1 are presented in figures 2 and 3. The heaviest precipitation occurred in an east-west belt about

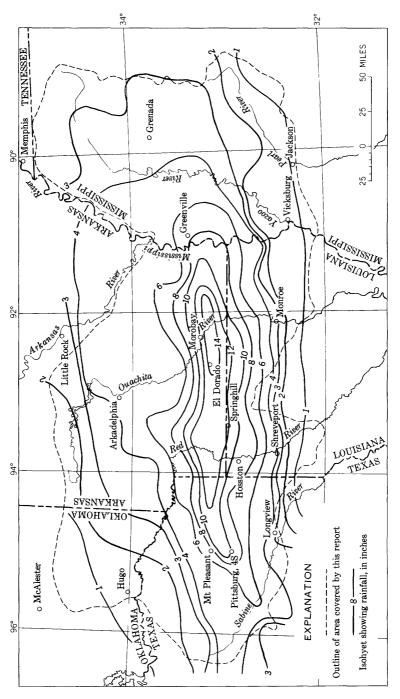


FIGURE 2.—Isohyetal map of rainfall during April 24-27, 1958.

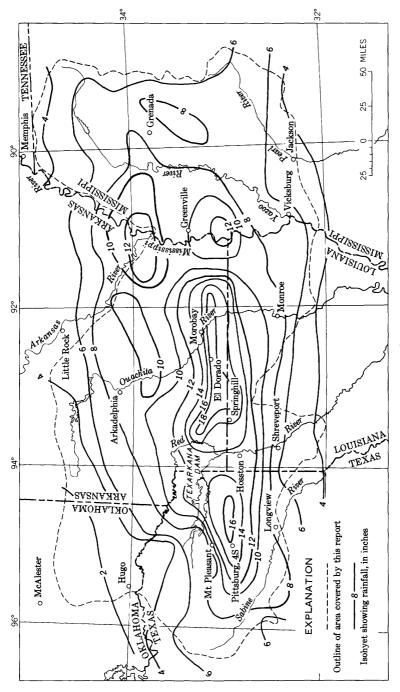


FIGURE 3.—Isohyetal map of rainfall during April 24-May 1, 1958.

50 miles wide extending from Mt. Pleasant, Tex., eastward to the Mississippi River.

Smaller amounts of rain fell on May 9, 18-20, 25, 27, and 28 from scattered storms. The maximum rainfall recorded in these periods was 8.08 inches during May 18-20 at Stevenson Fire Tower, about 30 miles north of Monroe, La. These storms had little or no effect on crest stages but did prolong the flood period.

The cumulative rainfall from April 24 to May 4 at selected Weather Bureau stations in Arkansas, Texas, and Louisiana is shown in figures 4-6. Figure 6 includes cumulative runoff for two streams in Louisiana.

GENERAL FEATURES OF THE FLOODS

The heavy and intense rainfall started late on April 24 or early on April 25 and produced major flooding during the next 4 to 5 weeks. Although there were two distinct storm periods, the second followed the first so closely that the runoff pattern for most streams was similar to that for a single storm. Maximum stages on many streams occurred because the second storm came while the larger streams were still rising.

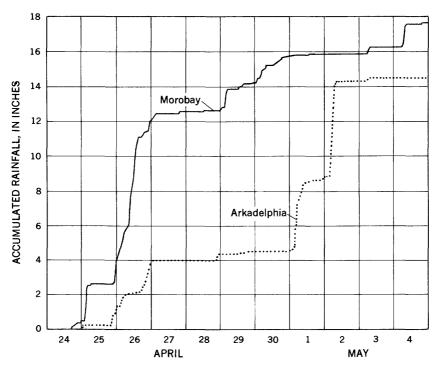


FIGURE 4.—Graphs of accumulated rainfall, April 24-May 4, 1958, at selected points in Arkansas.

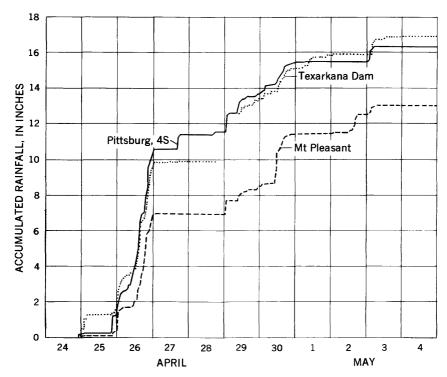


FIGURE 5.—Graphs of accumulated rainfall, April 24-May 4, 1958, at selected points in Texas.

The flood area includes the Sabine River basin upstream from Gladewater, Tex.; the Red River basin from the mouth of Muddy Boggy River in Oklahoma to Coushatta, La.; the Ouachita River basin upstream from Monroe, La., and that part of the basin in northeastern Louisiana north of U.S. Highway 80 between Monroe and Vicksburg, Miss.; the Yazoo River and Big Black River basins in Mississippi; and the Pearl River basin upstream from Jackson, Miss.

Floods in the Sabine River basin and most tributaries to the Red River in Texas were not outstanding, but at a few sites the previous maximum flood during the period of record was exceeded. For example, the maximum discharge during the period of record of 28,900 cfs (cubic feet per second) occurred on Boggy Creek near Daingerfield, Tex., on April 27, and the stage was 0.3 foot higher than any other known since 1900.

The contents of Lake O' the Pines on Cypress Creek near Jefferson, Tex., increased from 23,830 acre-feet on April 25 to 515,800 acre-feet on May 7, an increase of nearly 492,000 acre-feet in 12 days. This increase in contents plus 70,000 acre-feet released from Lake O' the Pines exceeded the previous maximum 12-day runoff (March 31-April 11,

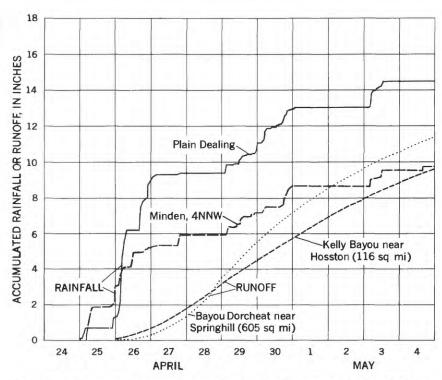


FIGURE 6.—Graphs of accumulated rainfall and runoff, April 24-May 4, 1958, at selected points in Louisiana.

1945) by 142,000 acre-feet. Computations based on rate-of-change in storage show that the maximum rate of inflow to the reservoir was 83,900 cfs from 2 to 3 a.m. on April 29. The previous maximum discharge of 57,100 cfs on April 1, 1945, at the gaging station in operation at this location from 1924 until storage began in the reservoir on Aug. 21, 1957, was the greatest flood since 1853. The maximum inflow to the reservoir during the floods of April—May 1958 greatly exceeded the historical maximum at the stream-gaging station. The records, however, are not entirely comparable because the peak discharge recorded at the stream-gaging station in 1945 represented the peak of a flood wave moving down a natural stream channel, whereas the peak rate of inflow into the reservoir represents inflow into the reservoir throughout its length. Consequently, the time of concentration of flood runoff into the reservoir is different from that of tributary contributions to a flood wave moving down a natural stream channel.

Several of the larger tributaries to the Red River and most of the small creeks in southeastern Oklahoma reached or exceeded flood stage. Lake Texoma on the Red River stored 335,700 acre-feet in the flood-control pool during May 2-7. Releases from storage in late

April and early May were primarily for power generation and reached a maximum daily flow of only 16,500 cfs on May 2. The stage of the Red River at Arthur City, Tex., on May 3 was 26.35 feet (discharge, 120,000 cfs), only 2.0 feet lower than that of the flood of June 1957, but 16.8 feet lower than that of the flood of May 28, 1908, the maximum known. Although peak discharges in this area were generally about half the previous maxima, runoff sustained the period of high water in the reaches downstream.

Record floods occurred in the area north of Shreveport, La. The 27.51-foot stage on April 29 on Black Bayou near Gilliam, La., exceeded by 1.78 feet the previous maximum of a 16-year record. Kelly Bayou and Paw Paw Bayou also reached new record heights. The auxiliary gage for Black Bayou near Gilliam, La., is near Oil City, La. (fig. 7).

The previous maximum stage of a 25-year record on Bayou Dorcheat near Minden, La., was exceeded by almost 2 feet. The peak stage was 24.90 feet on May 1, and water overtopped old U.S. Highway 80 by at least 2 feet.

South of U.S. Highway 80, Loggy Bayou near Ninock, La., reached the highest stage in 10 years on May 8. The maximum discharge of



Figure 7.—Black Bayou near Oil City, La., May 1, about 3 feet below crest. Photograph by Shreveport Times.

32,600 cfs occurred on May 4 and exceeded the previous maximum by 63 percent.

Storage in Lake Ouachita on the Ouachita River near Hot Springs, Ark., reached the flood-control pool level on April 30, and by May 7 the flood-control pool held 231,000 acre-feet. Lake Hamilton and Lake Catherine had little effect on stream flow. Regulation by Lake Ouachita reduced the maximum 24-hour inflow rate of 46,700 cfs into the lake to daily discharges below the lake of 55 cfs on May 2 and 25 cfs on May 3. The peak discharge on May 2 of Ouachita River near Malvern, Ark., was 55,200 cfs, equivalent to 120 cfs per sq mi (cubic feet per second per square mile) from the 457-square mile drainage area between Lake Ouachita and Malvern. The drainage area between Lake Ouachita and Arkadelphia, Ark., is 1,206 sq mi and produced a peak discharge at Arkadelphia on May 3 of 119,000 cfs, or 98.7 cfs per sq mi.

Smackover Creek near Smackover, Ark., reached a peak discharge on April 27 of 25,000 cfs, which was 52 percent greater than the previous maximum of a 20-year record.

The peak discharge, 26,800 cfs, of Moro Creek near Fordyce, Ark., was more than double the maximum during 1951-57 and 70 percent greater than the maximum discharge during the flood of January 1938.

The discharge of Bayou Bartholomew between Star City, Ark., and Beekman, La., exceeded that of previous floods of record. Stages were 1 to 2 feet higher than any previously recorded except at Wilmot, Ark., where the 1958 stage was slightly lower than that in January 1932, the maximum stage since 1925 (33 years of record). The 24.49-foot stage near McGehee, Ark., was the highest known since at least 1930.

The crest on Bayou de Loutre near DeLoutre, La., exceeded the previous maximum stage during 1948-57 by almost 8 feet.

Stages on Cornie Bayou and Three Creek near Three Creeks, Ark., were the highest since 1880. In north-central Louisiana, Corney Bayou near Lillie reached a stage of 25.2 feet, exceeding the maximum in 1940–57 by 7.0 feet.

Stages along the Boeuf River in northeastern Louisiana were nearly the same as previously recorded maxima. At Girard, La., however, the peak stage of 19.31 feet in 1958 exceeded the previous maximum during the 20 years of record by 0.51 foot but was far below the 29.5-foot stage reached during the historic Mississippi River flood of April—May 1927 which was affected by backwater.

Four flood-control reservoirs, Sardis, Enid, Arkabutla, and Grenada Reservoirs, were instrumental in keeping stages and discharges in most of the Yazoo River basin in Mississippi well below previous

maxima. No water was released after April 26 for 8 to 29 days until flood runoff in the lower reaches had subsided.

Although the rainfall slackened rapidly east of the Mississippi River, the Sunflower River basin received enough water to produce the highest stage and discharge since 1935—28.31 feet and 9,300 cfs, respectively, at Sunflower, Miss.

The crest stage of 39.74 feet on Big Rock River near Bovina, Miss., was the highest since 1930 and was only slightly higher than that of the flood of April 1951. At a site 6 miles upstream the crest was about 3 feet lower than that of the floods of 1912 and January 1927.

Floods in the Pearl River basin upstream from Jackson, Miss., were not outstanding. Crest stages at the eight stream-gaging stations in the basin ranged from 1.4 to 6.3 feet lower than the maxima. Discharges were about ½-½ as great as the maximum discharges during the periods of record except on Pearl River at Meeks Bridge, near Canton, Miss., where the peak discharge of 39,400 cfs was 68 percent of the Apr. 2, 1951, peak.

FLOOD DAMAGE

Extensive damage occurred along the Red and Ouachita Rivers in Arkansas and Louisiana, in the Boeuf River-Tensas River basin in Louisiana, in the Sulphur River basin in Texas, and in the Yazoo River and the Big Black River basins in Mississippi. In contrast, no great damage was reported along the larger Red River tributaries in southeastern Oklahoma, although the high water temporarily closed several roads that traverse low areas.

The floods of April-May 1958 caused the loss of three lives in Louisiana. During the flood almost every highway in Louisiana north of U.S. Highway 80 (Shreveport to Monroe) and west of U.S. Highway 165 (north from Monroe) was closed at some point. Highways were overtopped to depths of 10 feet and for lengths of several thousand feet. Direct damage to State roads and bridges was estimated by the Louisiana Department of Highways to be almost \$92,000.

The towns north of Shreveport, La., on the lowlands near Twelvemile Bayou and Black Bayou sustained heavy losses (fig. 8). Some people living on hills were isolated by the flood water for short periods of time.

Agricultural damage was high because the flood occurred when land was being prepared for planting or during planting. Lowlands were under water for several days, and considerable areas of newly plowed land on hillsides were seriously eroded. The Corps of Engineers estimates that approximately 2,476,000 acres, including about 467,000 acres of cleared land, were flooded in the Ouachita River basin in Arkansas and Louisiana.



FIGURE 8.—Aerial view of oil refinery near Oil City, La., on May 3, near crest of flood. Photograph by Shreveport Times.

The following summary lists approximate flood damages, as estimated by the Weather Bureau:

Ouachita River and tributaries (southern Arkansas)	\$2, 075, 000
Black and Ouachita Rivers and Red River below	
Alexandria (Louisiana)	2, 952, 000
Little Sulphur and Sabine Rivers, Cypress Creek	
and Red River above Alexandria, La. (Arkansas,	
Texas, Louisiana)	8, 381, 000
Pearl River basin (Mississippi)	1, 587, 000
Big Sunflower River and tributaries (Mississippi)	3, 954, 000
Yazoo River basin headwater (Mississippi)	1, 260, 000
Yazoo River basin backwater (Mississippi)	179, 000
Big Black River basin (Mississippi)	755, 000
Total	\$21, 143, 000

MEASUREMENT OF FLOOD DISCHARGES

The operation of a stream-gaging station consists principally of the determination of stage and the measurement of discharge to develop a relation between stage and discharge, from which the discharge can be computed when the stage is known. The ideal stagedischarge relation, or rating curve, is defined by current-meter measurements over the entire range in stage experienced. When the curve must be extended above the highest current-meter measurement, any of the following may permit a reasonable extension: indirect measurement of the flood discharge, logarithmic plotting, velocity-area studies, or the use of various measurable hydraulic factors. At some stations the slope of the water surface is not always the same for a given stage, and it is necessary to use slope as a factor in determining discharge. Varying slopes are caused by changing discharge or backwater or by a combination of these. When these conditions exist, a fall-stage-discharge rating curve is required, and an auxiliary gage is used to determine the slope or fall in a reach of channel.

Current-meter measurements were obtained at high stages at all stream-gaging stations in Louisiana, and many were made on the crest. Several measurements were made at stations where roads were overtopped and streams were several thousand feet wide. Boat equipment was used to obtain current-meter measurements in wide

overflow areas.

STAGES AND DISCHARGES AT STREAM-GAGING STATIONS

The data presented for each stream-gaging station generally consist of a description of the station, a table of daily discharges for April-May 1958, and a table of stages and discharges at sufficient intervals during the major flood periods to permit accurate definition of the flood hydrograph. At some stations, where only the stage is available, the daily mean stage or the stage at an indicated time on each day during the 2-month period is given.

The station description contains information concerning the location, drainage area, type and datum of the gage, the method used to determine the stage, the definition of the stage-discharge relation, the maximum stage and discharge during the flood period and for the period of gaging-station record before April 1958, historical data on maxima if available, and miscellaneous remarks on pertinent items. At stations where interchange of flow occurs between basins upstream, the drainage area figure is omitted or qualified.

Daily mean discharges at gaging stations for April-May 1958 follow the station description. Discharge records are given for 2 months to present not only the discharges of flood period but also those before and after the peak to show the relation of flood discharge to the discharges of the preceding and following periods. The monthly mean discharge and the volume of runoff in acre-feet, are given for some stations; and for some of these stations, the runoff, in inches, is included. In general, runoff, in inches, is computed only for stations in areas where the average annual rainfall exceeds 20 inches and where the flow is not regulated. Data for reservoirs show the elevation or gage height, in feet, and contents, in acre-feet, at an indicated time

each day and a summary of the change in contents during each month.

A tabulation of stages and discharges at indicated times follows the table of daily discharge. This detailed information is given for the period during which discharge was changing rapidly, whereas, for days of slowly changing discharge, the table of daily mean discharges furnishes sufficient information to define the discharge hydrograph adequately.

The stages at indicated times generally were obtained from records of continuous water-stage recorders. If the record was interrupted, the stage graph was completed on the basis of floodmarks or occasional gage readings and by comparison with the record at a nearby station. For stations at which the records of stage consisted only of one or more gage readings a day, a graph was drawn on the basis of the gage readings and floodmarks. Details regarding the gageheight record for each station are given in the station description.

Discharge hydrographs at selected gaging stations are shown in figures 9-11. Mass curves of cumulative rainfall and runoff in the Red River basin north of Shreveport, La., are shown in figure 6.

Streams south of U.S. Highway 80 and east of the Ouachita River were outside the area of heavy rainfall but were in flood from upstream runoff; however, records for stream-gaging stations in this area are not included in the present report. For gages operated by

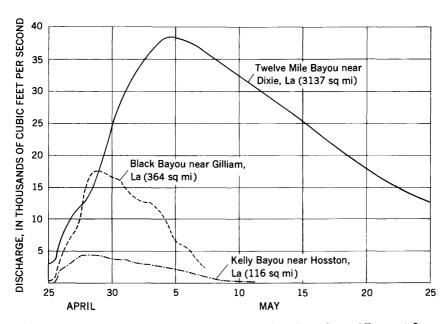


FIGURE 9.—Discharge hydrographs for selected Red River tributaries northwest of Shreveport, La.

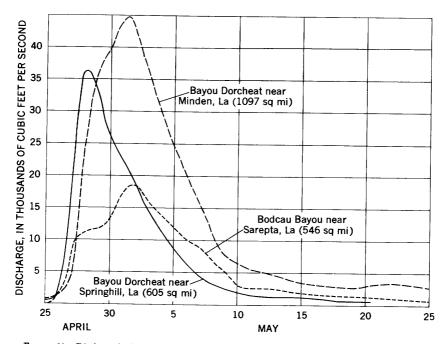


FIGURE 10.—Discharge hydrographs for selected Red River tributaries northeast of Shreveport, La.

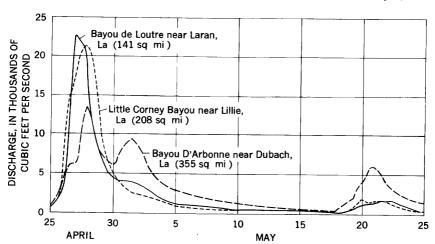


FIGURE 11.—Discharge hydrographs for selected Ouachita River tributaries in Louisiana.

the Corps of Engineers, records have been published in "Stages and Discharges of the Mississippi River and Tributaries in the Vicksburg District," Corps of Engineers, 1958.

PEARL RIVER BASIN

1. PEARL RIVER AT EDINBURG, MISS.

Location.—Lat 32°47′, Long 89°20′, in SW¼ sec. 13, T. 11 N., R. 9 E., Choctaw meridian, on right bank 20 ft downstream from bridge on State Highway 16 at Edinburg, 1,100 ft downstream from Hooper Mill Creek, 3 miles upstream from Rice Creek, and 11¾ miles northeast of Carthage.

Drainage area.—898 sq mi.

Gage-height record.—Water-stage recorder graph. Datum of gage is 341.67 ft above mean sea level, datum of 1929, supplementary adjustment of 1941.

Discharge record.—Stage-discharge relation defined by current-meter measurements.

Maxima.—April-May 1958: Discharge, 11,600 cfs 6 a.m. May 5 (gage height, 24.58 ft).

1928 to March 1958: Discharge, 31,400 cfs Mar. 8, 1935 (gage height, 26.20 ft); gage height, 26.30 ft Feb. 16, 1950.

Maximum stage known, 29.0 ft in March 1902, from reports of U.S. Weather Bureau.

					J = 10 P = 1			
Day	April	Мау	Day	April	Мау	Day	April	Мау
1	1, 930 1, 780 1, 620 1, 470 1, 320 1, 210 1, 080 932 892 1, 040	8, 180 11, 000 11, 300 11, 300 10, 200 9, 150 7, 680 6, 590 5, 530	11	1, 060 972 852 795 1, 060 1, 230 1, 300 1, 230 1, 160 1, 060	4, 640 3, 880 3, 150 2, 590 2, 140 1, 780 1, 520 1, 260 1, 040 872	21 22 23 24 25 26 27 28 29 30	1, 700 1, 750 1, 750 1, 500 1, 540 1, 600 2, 080 2, 200 3, 320 5, 530	682 524 413 332 277 235 202 171 148 130
Monthly me	an dischar	ge				inches_	1, 564 1, 94	3, 807 4. 89

Mean discharge, in cubic feet per second

2. LOBUTCHA CREEK NEAR CARTHAGE, MISS.

Location.—Lat 32°46′, long 89°28′, in NE1⁄4 sec. 34, T. 11 N., R. 8 E., Choctaw meridian, near center of span on downstream side of bridge on State Highway 16, 3 miles upstream from mouth and 5 miles northeast of Carthage. Drainage area.—313 sq mi.

Gage-height record.—Graph based on twice daily wire-weight gage readings and crest-stage indicator. Datum of gage is 334.98 ft above mean sea level, datum of 1929, supplementary adjustment of 1941.

Discharge record.—Stage-discharge relation defined by current-meter measurements.

Maxima.—April-May 1958: Discharge, 7,460 cfs about 10 p.m. May 2 (gage-height, 16.21 ft).

1937 to March 1958: Discharge, 19,100 cfs Mar. 29, 1951 (gage-height, 18.00 ft).

Mean discharge, in cubic feet per second

Day	April	Мау	Day	April	May	Day	April	Мау
1	505 417 362 320 290 260 240 210 330	4, 360 5, 980 5, 080 3, 380 3, 140 3, 260 2, 450 1, 790 1, 380 1, 230	11 12 13 14 15 15 16 17 17 18 19 20 20 1	453 453 453 406 441 668 738 626 524 384	1, 070 990 825 626 466 313 229 189 179 209	21 22 23 24 25 26 27 28 29 30 31	479 870 840 710 654 954 1, 330 1, 710 3, 260 4, 160	229 189 160 133 116 108 93 86 79 73
Monthly me Runoff	an dischar	ge				inches	776 2.77	1, 241 4. 57

3. TUSCOLAMETA CREEK AT WALNUT GROVE, MISS.

Location.—Lat 32°35′, long 89°28′, in NW¼ sec. 34, T. 9 N., R. 8 E., Choctaw meridian, on right bank at downstream side of bridge on State Highway 35, over north drainage canal, 0.4 mile southwest of Walnut Grove, 0.6 mile upstream from Gulf, Mobile and Ohio Railroad bridge, 7½ miles upstream from junction of north and south drainage canals, and 15½ miles upstream from mouth.

Drainage area.—411 sq mi (combined drainage area of all channels).

Gage-height record.—Water-stage recorder graph. Datum of gage is 332.70 ft above mean sea level, datum of 1929, supplementary adjustment of 1941 (levels by Corps of Engineers).

Discharge record.—Stage discharge relation defined by current-meter measurements.

Maxima.—April-May 1958: Discharge, 8,400 cfs 11 a.m. May 1 (gage height, 16.69 ft).

1939 to March $1958\colon$ Discharge, $34{,}600$ cfs Jan. 7, 1950 (gage height, $23.00\;\text{ft})\,.$

Mean discharge, in cubic feet per second

Day	April	Мау	Day	April	Мау	Day	April	Мау
1	442 337 257 233 207 184 153 133 213 764	8, 000 6, 650 4, 800 3, 400 3, 830 3, 760 3, 400 1, 320 409 274	11	651 408 252 179 420 657 477 269 143 148	232 203 168 140 120 100 92 81 84 90	21	1, 130 1, 130 734 338 355 621 520 1, 360 2, 730 4, 920	80 74 70 64 60 56 48 42 43 38
Monthly me	an dischar	ge				inches	680 1. 85	1, 218 3, 42

4. YOCKANOOKANY RIVER NEAR KOSCIUSKO, MISS.

Location.—Lat 33°02′, long 89°35′, in NE¼NE¼ sec. 33, T. 14 N., R. 7 E., Choctaw meridian, on left bank at downstream side of bridge on State Highway 35, 2 miles south of Kosciusko.

Drainage area.—314 sq mi.

Gage-height record.—Water-stage recorder graph. Datum of gage is 374.34 ft above mean sea level, datum of 1929, supplementary adjustment of 1941 (levels by Corps of Engineers).

Discharge record.—Stage-discharge relation defined by current-meter measure-

Maxima.—April-May 1958: Discharge, 4,780 cfs 5 a.m. May 2 (gage height, 14.32 ft).

1938 to March 1958: Discharge, 19,300 cfs Mar. 29, 1951 (gage height, 18.72 ft).

Day	April	Мау	Day	April	Мау	Day	April	Мау
1	274 231 207 202 187 165 138 118 162 405	3, 600 4, 780 3, 980 3, 880 4, 310 3, 520 2, 880 1, 310 485	11	450 320 215 182 492 745 427 240 184 182	720 1, 080 1, 150 660 223 151 122 100 107 138	21	863 1, 300 964 367 790 2, 550 2, 880 3, 210 3, 210 3, 070	130 93 74 62 54 50 46 43 43
Monthly me Runoff	an dischar	ge				inches	824 2. 93	1, 206 4, 43

Mean discharge, in cubic feet per second

5. YOCKANOOKANY RIVER NEAR OFAHOMA, MISS.

Location.—Lat 32°42′, long 89°40′, in NE¼NW¼ sec. 22, T. 10 N., R. 6 E., Choctaw meridian, near center of main span on downstream side of bridge on State Highway 16, 1½ miles southeast of Ofahoma, 3 miles upstream from mouth, and 8½ miles southwest of Carthage.

Drainage area.—484 sq mi.

Gage-height record.—Graph based on once daily wire-weight gage readings and crest-stage indicator. Datum of gage is 311.15 ft above mean sea level, datum of 1929, supplementary adjustment of 1941 (levels by Corps of Engineers).

Discharge record.—Stage-discharge relation defined by current-meter measurements.

Maxima.—April—May 1958: Discharge, 9,220 cfs about 2 p.m. May 3 (gage height, 18.07 ft).

1943 to March $1958\colon$ Discharge, 20,700 cfs Mar. 31, 1951 (gage height, $20.28\;\mathrm{ft}).$

Mean discharge, in cubic feet per second

Day	April	May	Day	April	May	Day	April	May
1	718 613 529 428 331 295 261 244 261 331	8, 320 8, 320 8, 920 7, 760 7, 240 7, 240 6, 100 4, 840 4, 300 3, 720	11	313 350 369 428 550 697 634 655 740 762	2, 850 2, 010 1, 390 1, 080 1, 080 1, 060 919 697 369 278	21	942 1, 110 828 850 1, 160 1, 470 1, 750 2, 130 4, 060 6, 320	228 228 212 174 153 126 107 96 79 79
Monthly me	an dischar	ge				inches_	1, 004 2. 32	2, 582 6. 15

6. PEARL RIVER AT MEEKS BRIDGE, NEAR CANTON, MISS.

Location.—Lat 32°30′50′′, long 89°56′25′′, in NE½ sec. 25, T. 8 N., R. 3 E., Choctaw meridian, near left bank on downstream side of Meeks bridge on State Highway 43, 3½ miles northwest of Goshen Springs, 5½ miles upstream from Mill Creek, 9 miles southeast of Canton, and 10 miles downstream from Fannegusha Creek.

Drainage area.—2,780 sq mi, approximately.

Gage-height record.—Water-stage recorder graph. Datum of gage is 270.53 ft above mean sea level, datum of 1929, supplementary adjustment of 1941 (levels by Corps of Engineers).

Discharge record.—Stage-discharge relation defined by current-meter measurements.

Maxima.—April-May 1958: Discharge, 39,400 cfs 6 a.m. May 6 (gage height, 25.00 ft).

 $1939\ \mathrm{to}\ \mathrm{March}\ 1958$: Discharge, $57{,}800\ \mathrm{cfs}\ \mathrm{Apr.}\ 2,\ 1951\ (gage\ \mathrm{height},\ 26.30\ \mathrm{ft})$.

Flood in December 1932 reached a stage of 26.4 ft, from floodmarks.

Mean discharge, in cubic feet per second

Day	April	Мау	Day	April	May	Day	April	Мау
1	5, 740 5, 310 4, 800 4, 230 3, 750 3, 320 2, 980 2, 650 2, 470 2, 530	15, 000 20, 800 25, 500 32, 800 38, 400 36, 500 32, 800 29, 100 24, 900	11	3, 250 3, 530 3, 320 2, 910 2, 840 3, 040 3, 600 3, 750 3, 600 3, 390	22, 000 19, 400 16, 400 13, 600 11, 400 9, 290 7, 350 5, 740 4, 310 3, 180	21	3, 600 4, 550 5, 570 5, 830 5, 400 4, 970 5, 400 6, 090 7, 550 10, 800	2, 530 2, 170 1, 820 1, 520 1, 310 1, 110 990 857, 771 707 848
Monthly me	an dischar	ge				inches	4, 359 1. 75	13, 590 5. 64

7. PELAHATCHIE CREEK NEAR FANNIN, MISS.

Location.—Lat 32°23'18", long 89°58'05", in SW¹/₄SW¹/₄ sec. 2, T. 6 N., R. 3 E., Choctaw meridian, near right bank 200 ft downstream from new bridge on State Highway 471, 2.2 miles downstream from Clark Creek, 2.2 miles south of Fannin, and 7.5 miles upstream from mouth.

Drainage area.—205 sq mi.

Gage-height record.—Water-stage recorder graph. Datum of gage is 279.31 ft above mean sea level, datum of 1929 (Corps of Engineers bench mark).

Discharge record.—Stage-discharge relation defined by current-meter measurements.

Maxima.—April-May 1958: Discharge, 5,860 cfs 1:30 p.m. May 1 (gage height, 20.30 ft).

1951 to March $1958\colon$ Discharge, $13{,}500$ cfs Apr. $13,\ 1955$ (gage height, $22.08\ \mathrm{ft})\,.$

Maximum stage known since at least 1880, about 23.7 ft in January 1950, from information by local residents.

Day	April	Мау	Day	April	Мау	Day	April	Мау
	224 139 98 78 66 58 49	5, 180 4, 050 2, 490 1, 230 1, 920 2, 450 2, 180	11	718 364 160 136 180 417	66 55 56 45 35 27 21	212223252527	304 684 539 187 88 74	22 30 25 18 15 13
0	42 77 508	1, 070 170 84	18	153 86 68	18 17 18	28 29 30 31	229 720 2, 280	9. 8. 7. 6.
Monthly mea	an dischar	ge	<u> </u>		!	inches	304 1,65	6 3.

Mean discharge, in cubic feet per second

8. PEARL RIVER AT JACKSON, MISS.

Location.—Lt 32°17'20'', long 90°10'45'', in SE¼ sec. 10, T. 5 N., R. 1 E., Choctaw meridian, on left bank at downstream side of bridge on U.S. Highway 80 (old) at eastern city limits of Jackson, 0.2 mile upstream from Illinois Central Railroad bridge, a quarter of a mile upstream from Town Creek, and 4½ miles upstream from Richland Creek.

Drainage area.—3,100 sq mi, approximately.

Gage-height record.—Water-stage recorder graph. Datum of gage is 234.90 ft above mean sea level, datum of 1929, supplementary adjustment of 1941 (levels by Corps of Engineers).

Discharge record.—Stage-discharge relation defined by current-meter measurements.

Maxima.—April-May 1958: Discharge, 38,900 cfs 6 a.m. May 8 (gage height, 34.23 ft).

1901-13, 1928 to March 1958: Discharge, 80,800 cfs Apr. 1, 1902 (gage-height, 37.2 ft).

Mean discharge, in cubic feet per second

Day	April	Мау	Day	April	Мау	Day	April	May
1	7, 650 7, 150 6, 340 5, 600 4, 880 4, 180 3, 610 3, 240 3, 200 3, 440	14, 600 17, 200 20, 500 25, 800 32, 900 37, 000 38, 800 37, 000 34, 200	11 12 13 14 15 15 16 17 19 19 20 20	3, 650 3, 970 3, 930 3, 650 3, 770 3, 690 3, 730 3, 930 3, 970 3, 850	31, 100 28, 000 24, 100 20, 600 17, 000 15, 000 12, 900 11, 100 9, 140 7, 710	21	4, 550 4, 880 5, 000 5, 340 5, 550 5, 510 5, 290 5, 210 6, 390 10, 300	6, 790 4, 790 3, 080 2, 540 2, 130 1, 840 1, 430 1, 310 1, 150 1, 070
Monthly me Runoff	an dischar	ge				inches	4, 848 1. 74	16, 170 6, 01

YAZOO RIVER BASIN

9. TALLAHATCHIE RIVER NEAR LAMBERT, MISS.

- Location.—Lat 34°10′50″, long 90°12′55″, in SW¼ sec. 29, T. 27 N., R. 1 E., Choctaw meridian, near center of span on downstream side of highway bridge, a quarter of a mile downstream from Coldwater River, 4 miles southeast of Lambert, and 24½ miles downstream from point of diversion of Panola-Quitman Floodway.
- Drainage area.—1,980 sq mi, approximately (does not include 2,600 sq mi of upper Tallahatchie and Yocona Rivers, the entire flow of which is diverted 24½ miles upstream through Panola-Quitman Floodway).
- Gage-height record.—Water-stage recorder graph. Datum of gage is 123.83 ft above mean sea level, datum of 1929 with 1941 Alluvial Valley and 1944 Birmingham-Corinth supplementary adjustments, U.S. Coast and Geodetic Survey (levels by Corps of Engineers).
- Discharge record.—Stage-discharge relation defined by current-meter measurements.
- Maxima.—April-May 1958: Discharge, 11,600 cfs 10 a.m. May 3 (gage-height, 30.54 ft).

 $193\overset{\prime}{5}$ to March 1958: Discharge observed, 32,800 cfs Jan. 30, 1937 (gageheight, 35.54 ft).

A stage of 36.8 ft (from floodmarks) occurred in January 1932 (probably affected by levee breaks above).

Remarks.—No flow passed Arkabutla Dam on Coldwater River Apr. 27-May 4.
Gates completely closed. Drainage area above Arkabutla Dam is 1,000 sq mi.
Cooperation.—Records furnished by Corps of Engineers.

Mean discharge, in cubic feet per second

Day	April	Мау	Day	April	Мау	Day	April	Мау
1	3, 540 3, 230 3, 130 3, 040 3, 180 3, 150 2, 490 2, 230 2, 150	10, 400 11, 100 11, 600 11, 500 11, 300 11, 200 10, 500 9, 790 9, 260 9, 190	11 12 12 13 14 15 15 16 17 17 18 19 20 20 1	2, 070 1, 980 1, 840 1, 810 2, 930 5, 850 6, 260 5, 230 4, 390 3, 700	9, 690 9, 490 8, 390 7, 100 6, 600 5, 690 5, 350 5, 010 4, 920 6, 180	21	3, 360 3, 470 3, 210 2, 930 3, 000 6, 090 9, 070 9, 160 9, 500 10, 300	6, 20 5, 53 5, 34 4, 96 4, 74 4, 68 4, 31 4, 32 4, 36 4, 17 4, 14
Monthly me	an dischar	ge				01	4, 176	

10. TALLAHATCHIE RIVER AT SWAN LAKE, MISS.

Location.—Lat 33°52′55″, long 90°16′45″, in NE½ sec. 10, T. 23 N., R. 1 W., Choctaw meridian, near center of span on downstream side of highway bridge, half a mile northeast of Swan Lake, 2 miles downstream from Cassidy Bayou, 17 miles downstream from point where Panola-Quitman Floodway empties into Tallahatchie River, and at mile 235.6.

Drainage area.—5,130 sq mi, approximately.

Gage-height record.—Water-stage recorder graph. Datum of gage is 113.38 ft above mean sea level, datum of 1929 with 1941 Alluvial Valley supplementary adjustment, U.S. Coast and Geodetic Survey.

Discharge record.—Stage-discharge relation defined by current-meter measurements.

Maxima.—April-May 1958: Discharge, 28,300 cfs 8 a.m. May 4; gage height, 30.40 ft 4 p.m. May 4.

1929 to March 1958: Discharge observed, 49,200 cfs Apr. 9, 1933; gage height, 37.0 ft, Jan. 15, 1932 (affected by break in levee).

Remarks.—No flow passed Arkabutla Dam on Coldwater River Apr. 27-May 4, Enid Dam on Yocona River Apr. 27-May 25, and Sardis Dam on Tallahatchie River Apr. 27-May 21. Total drainage area above dams is 3,105 sq mi.

Cooperation.—Records furnished by Corps of Engineers.

	Mean	discharge,	in	cubic	feet	per	second	
 Ι.	_ []		T		l		II	

9, 330 9, 070 8, 720 8, 230 8, 100 12, 100 14, 100 15, 500 17, 400 18, 600	10, 60 10, 20 9, 74 9, 44 9, 14 8, 72 8, 56 8, 56 8, 83 8, 83
	14, 100 15, 500 17, 400

11. THOMPSON CREEK AT McCARLEY, MISS.

Location.—Lat 33°31'25", long 89°50'40", in SE14 sec. 11, T. 19 N., R. 4 E., Choctaw meridian, on left bank at downstream side of highway bridge, 0.1 mile upstream from Columbus and Greenville Railway bridge, 0.4 mile upstream from mouth, and 0.6 mile west of McCarley.

Drainage area.—14.4 sq mi.

Gage-height record.—Water-stage recorder graph and twice-daily wire-weight gage readings. Datum of gage is 251.86 ft above mean sea level, datum of 1929.

Discharge record.—Stage-discharge relation defined by current-meter measurements.

Maxima.—April-May 1958: Discharge, 1,330 cfs 4:30 a.m. Apr. 29 (gage height, 8.80 ft).

 $1956\ to\ March\ 1958$: Discharge, 2,420 cfs Jan. 4, 1957 (gage height, 12.06 ft).

Flood of Apr. 1, 2, 1955, reached a stage of 14.05 ft and flood of Mar. 27, 1951, reached a stage of 12.96 ft from records furnished by U.S. Department of Agriculture, Soil Conservation Service.

Mean discharge, in cubic feet per second

Day	April	Мау	Day	April	Мау	Day	April	Мау
1	15 15 14 14 12 12 10 9.7	229 135 32 137 85 37 18 12 11 265	11 12 12 13 14 15 15 16 17 17 18 19 20 20 1	10 10 9. 4 11 32 13 11 11 9. 7 9. 4	73 35 26 20 18 16 14 13 18	21	9. 7 8. 6 8. 2 7. 5 77 394 129 68 454 93	13 11 9. 4 8. 6 8. 6 8. 0 8. 0 7. 6 7. 2
Monthly me Runoff	an dischar	ge				inches	50. 0 3. 87	42. 1 3. 37

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1958

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
Apr. 24			Apr. 30			May 6		
12 p.m	4. 10	44	6 a.m	4.80	112	2 a.m	4. 41	59 63
Apr. 25			12 m	4.67 4.48	91 66	6	4.37 4.27	63 43
-			12 p.m.	4.42	59	12 m	4. 16	32
12 m 12 p.m	4, 33 4, 72	69	364			12 p.m	4.03	22
12 p.m.	4.72	127	May 1		1	May 7		
Apr. 26			6 a.m	4.42	59	· '		
4 a.m	4.80	138	12 m	4.41	57	12 m	3.96	18 14
6	5.03	187	3 p.m	4.48 6.30	66 536	12 p.m	3.90	14
8	5. 75	380	5	6. 93	738	May 8		
9	6.40 7.50	577	6	6.60	632	10	9.05	.,,
11.	8. 13	920 1, 120	8	6. 10 5. 90	475 412	12 p.m	3.85	11
11:30	8.25	1, 160	9	6.04	457	May 9		
12 m	8. 10	1, 110	10	6. 25	520	Ī .		
1 p.m 2	7.35 6.44	872 589	11 12 p.m	6.40 6.16	567 493	6 p.m 12 p.m	3.83 3.87	9.8 12
3	6.30	546	12 p.m	0.10	490	12 p.m	0.01	12
4	5.87	415	May 2		i i	May 10		
6 8	5. 46 5. 13	296 211	9.0 m		امروا	9.0	9 05	117
12 p.m	4.69	121	2 a.m	5. 55 5. 30	314 244	2 a.m	3.95 4.17	17 34
Apr. 27			8	4.85	108	5	5.00	163
6 a.m	4 90		12 m	4.62	87	6	5. 50	297
12 m	4.38 4.20	70 50	6 p.m 12 p.m	4.44 4.32	63 50	7 8	5. 25 4. 98	228 156
4 p.m	4.30	61	_	1.02	"	10	4. 67	96
5 6	5.70	365	May 3			12 m	4.52	75
8	5. 55 5. 30	322 252	12 m	4, 11	28	2 p.m	4.40 4.37	60 56
10	5. 12	209	12 p.m	4.03	22	4	4.40	60
12 p.m	4.92	166	_]	5	7.60	952
Apr. 28			May 4			6	8. 56	1, 260 984
6 a.m	4.35	71	9 a.m	4.00	20	8	7.70 6.54	622
12 m	4.10	44	10	4.02	21	9	5.70	372
4 p.m 8	4.04 4.11	39	12 m	4. 16	32	10	5.34	273
12 p.m	4.40	45 77	2 p.m 2:30	4. 50 5. 70	71 355	12 p.m	4.90	170
Apr. 29			3	5. 50	289	May 11		
-	4 50		4	5. 56	306	· ·		*00
1 a.m 2	4. 53 5. 90	90 424	5 6	5. 50 5. 70	289 358	2 a.m	4.66 4.50	126 100
3	7.82	1,020	7	5. 76	376	4 12 m	4.20	60
4	8.65	1.290	8	5. 71	358	12 p.m	4.00	40
4:30	8.80 8.70	1,330 1,300	9	5.42	266	3640		
6	8.00	1,080	10 12 p.m	5. 35 5. 16	244 192	May 12		
7	7.00	763	May 5	5 2.5		12 m	3.93	34
8	6.37	560	l	4 50	100	12 p.m	3.88	31
12 m	5. 90 5. 70	406 346	6 a.m 12 m	4.70 4.45	100 66	May 13		
4 p.m	5.42	264	6 p.m	4.31	50	May 10		
8	5.20	202	9	4.35	54	12 p.m	3, 76	22
12 p.m	5.00	156	12 p.m	4.40	60		į	

12. YAZOO RIVER AT GREENWOOD, MISS.

Location.—Lat 33°31'17", long 90°11'03", in SW14 sec. 10, T. 19 N., R. 1 E., Choctaw meridian, on left bank 110 ft downstream from bridge on U.S. Highway 49E and 82 (old) in Greenwood, 0.4 mile downstream from Palusha Bayou, 3 miles downstream from confluence of Tallahatchie and Yalobusha Rivers, and at mile 169.4.

Drainage area.—7,450 sq mi, approximately.

Gage-height record.—Water-stage recorder graph. Datum of gage is 92.07 ft above mean sea level, datum of 1929 with 1941 Alluvial Valley supplementary adjustment, U.S. Coast and Geodetic Survey.

Discharge record.—Stage-discharge relation defined by current-meter measurements.

Maxima.—April-May 1958: Discharge, 28,200 cfs May 10; gage-height, 34.15 ft 11:30 p.m. May 10.

1907-12, 1927 to March 1958: Discharge, 72,900 cfs Jan. 19, 1932, (gage-height, 40.10 ft).

Maximum stage known, 41.2 ft in 1882, caused by overflow from Mississippi River (discharge not determined), from reports of Mississippi River Commission.

Remarks.—No flow passed Arkabutla Dam on Coldwater River Apr. 27-May 4, Enid Dam on Yocona River Apr. 27-May 25, Sardis Dam on Tallahatchie River Apr. 27-May 21, and Grenada Dam on Yalobusha River Apr. 27-May 19. Gates completely closed. Total drainage area above dams is 4,425 sq mi. Cooperation.—Records furnished by Corps of Engineers.

Day	April	Мау	Day	April	Мау	Day	April	May
1	15, 200 14, 700 14, 000 13, 400 12, 800 12, 200 11, 700 10, 800 10, 300	23, 000 24, 300 25, 100 26, 000 27, 500 27, 700 27, 700 27, 400 27, 200 27, 800	11	9, 920 9, 550 9, 180 8, 950 8, 930 10, 300 11, 200 11, 500 11, 600	28, 000 27, 000 26, 300 25, 400 24, 600 23, 600 22, 500 21, 300 20, 400 19, 300	21	11, 500 11, 400 11, 300 11, 700 11, 700 15, 700 18, 200 19, 200 21, 000 22, 000	18, 40 17, 90 17, 40 16, 80 16, 20 15, 70 15, 10 14, 50 14, 10 13, 80 13, 40

Mean discharge, in cubic feet per second

13. SUNFLOWER RIVER AT SUNFLOWER, MISS.

Location.—Lat 33°32′50′′, long 90°32′35′′, in NE½ sec. 6, T. 19 N., R. 3 W., Choctaw meridian, near right bank on downstream side of highway bridge, half a mile northwest of Sunflower, 2½ miles downstream from Jones Bayou, and 19 miles upstream from Quiver River.

Drainage area.—767 sq mi.

Gage-height record.—Water-stage recorder graph. Datum of gage is 92.95 ft above mean sea level, datum of 1929 with 1941 Alluvial Valley supplementary adjustment, U.S. Coast and Geodetic Survey (levels by Corps of Engineers).

Discharge record.—Stage-discharge relation defined by current-meter measurements.

Maxima.—April-May 1958: Discharge, 9,300 cfs 8 p.m. May 5 (gage height, 28.31 ft).

1935 to March 1958: Discharge observed, 7,700 cfs Jan. 15-17, 1946; gage height observed, 27.43 ft Jan. 16, 1946.

Cooperation.—Records furnished by Corps of Engineers.

Mean discharge, in cubic feet per second

Day	April	Мау	Day	April	Мау	Day	April	Мау
1	2, 120 1, 880 1, 640 1, 380 1, 180 980 836 694 582 506	7, 500 8, 500 8, 960 9, 250 9, 270 9, 270 7, 970 7, 850 7, 650 7, 750	11	454 414 374 354 404 470 658 922 1,080 1,080	7, 650 7, 530 7, 120 6, 730 6, 440 5, 200 5, 660 5, 280 4, 880 4, 600	21	1, 020 972 888 800 942 1, 720 3, 160 4, 030 5, 040 6, 300	4, 570 4, 560 4, 500 4, 380 4, 170 4, 040 3, 840 3, 650 3, 450 3, 220 2, 980
Monthly me	an dischar	ge				in ches	1, 429 2. 08	6, 078 9. 14

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1958

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
Apr. 24 12 p.m	6. 75 6. 73 7. 17 7. 94 9. 11 11. 40 15. 36 18. 40 20. 05	723 720 808 950 1, 190 1, 630 2, 450 3, 230 3, 710 4, 030	Apr. 29 12 m	23. 26 24. 15 24. 82 25. 44 26. 00 26. 60 27. 05 27. 53	5, 040 5, 710 6, 290 6, 900 7, 480 8, 030 8, 510 8, 790 8, 950	May 4* 10 a.m	27. 82 28. 04 28. 21 28. 24 28. 27 28. 31 28. 30 28. 24	9, 240 9, 260 9, 270 9, 280 9, 290 9, 300 9, 270 9, 270 9, 260
12 p.m.	22.00	4, 360	12 p.m.	27.72	9, 150	12 p.m	28. 12	8,000

^{*}Daily means, cannot be computed precisely from figures shown.

BIG BLACK RIVER BASIN

14. BIG BLACK RIVER AT PICKENS, MISS.

Location.—Lat 32°52′45″, long 89°58′05″, in SW¼ sec. 14, T. 12 N., R. 3 E., Choctaw meridian, on right bank at downstream side of bridge on old U.S. Highway 51, half a mile southeast of Pickens, 6 miles downstream from Seneasha Creek, and 6 miles upstream from Cypress Creek.

Drainage area.—1,460 sq mi, approximately.

Gage-height record.—Water-stage recorder graph.

Discharge record.—Stage-discharge relation defined by current-meter measurements. Maxima.—April-May 1958: Discharge, 37,800 cfs 2 p.m. May 2 (gage height, 20.15 ft).

1936 to March $1958\colon$ Discharge, $49{,}400$ cfs Mar. $28,\,1951$ (gage height, 22.20 ft).

Maximum stage known, 23.7 ft Dec. 29, 1926. Flood of May 1930 reached a stage of about 23.5 ft and a flood in 1892 reached about the same stage as the floods of 1926 and 1930, from information by local residents.

Mean discharge, in cubic feet per seco	md
--	----

Day	April	Мау	Day	April	Мау	Day	April	May
1	2, 950 2, 850 2, 300 1, 500 1, 230 1, 110 1, 020 900 840 1, 020	20, 500 35, 100 25, 600 15, 000 14, 000 13, 200 12, 000 10, 800 10, 000 8, 900	11	1, 170 1, 380 1, 290 1, 050 1, 500 2, 810 2, 650 2, 200 2, 060 2, 090	8, 000 7, 360 7, 360 8, 000 7, 360 6, 300 5, 700 4, 920 3, 260 1, 530	21	2, 690 3, 150 2, 410 1, 920 2, 270 4, 180 6, 430 9, 970 14, 500 17, 800	1, 260 1, 200 1, 170 200 780 615 525 450 392 366 342
Monthly me	an dischar	ge				inches_	3, 308 2. 53	7, 522 5. 94

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1958

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
Apr. 24			Apr. 28			May 3		
12 p.m Apr. 25	8, 98	1,840	8 a.m 4 p.m 12 p.m	17. 80 18. 28 18. 49	9, 110 10, 800 11, 900	12 m 12 p.m May 4	19.38 18.92	25, 400 17, 600
4 a.m 12 m 12 p.m	8. 99 9. 40 12. 58	1,850 1,990 3,290	Apr. 29 12 m	18. 87 19. 05	14, 800 16, 500	12 m 12 p.m	18. 65 18. 61	14, 300 14, 000
Apr. 26	13.05	3, 520	Apr. 30 12 p.m May 1	19. 28	19, 100	May 5	18.65	14, 200 13, 800
12 m 12 p.m Apr. 27	14.02 15.82	4, 010 5, 34 0	6 p.m 12 p.m May 2	19.34 19.84	19, 400 29, 200	12 p.m May 6	18.60	
4 a.m 4 p.m	16. 20 16. 61	5,830 6,460	4 a.m 2 p.m	19. 95 20. 15	33, 800 37, 800	12 p.m May 7	18.44	12, 500
12 p.m	17. 46	8, 120	12 p.m	19.84	34,000	12 p.m	18.28	11,500

15. BIG BLACK RIVER NEAR BOVINA, MISS.

Location.—Lat 32°20′51′′, long 90°41′48′′, in NW¼ SE¼ sec. 22, T. 16 N., R. 5 E., Washington meridian, on left bank at downstream side of bridge on U.S. Highway 80, 300 ft upstream from Clear Creek, 0.4 mile upstream from Illinois Central Railroad bridge, 2 miles east of Bovina, 12 miles upstream from Fourteenmile Creek, and at mile 61.7. Records include flow of Clear Creek.

Drainage area.—2,810 sq mi, approximately, includes that of Clear Creek.

Gage-height record.—Water-stage recorder graph. Datum of gage is 84.93 ft above mean sea level, datum of 1929, or 85.00 ft above mean Gulf level (levels by Corps of Engineers; Corps of Engineers bench mark).

690-439 0-63-3

Discharge record.—Stage-discharge relation defined by current-meter measurements.

Maxima.—April-May 1958. Discharge, 52,500 cfs 6:30 p.m. May 5 (gage height, 39.74 ft).

1936 to March 1958: Discharge, 58,600 cfs Apr. 1, 1951 (gage height, 39.65 ft).

Previous maximum stage known since May 1930, that of Apr. 1, 1951. Floods of 1912 and January 1927 reached a stage about 3 ft higher than that of May 5, 1958, at Askews Bridge, 6 miles upstream.

Mean discharge, in cubic feet per second

Day	April	Мау	Day	April	Мау	Day	April	Мау
1	4, 620 4, 220 4, 040 3, 900 3, 680 2, 920 2, 000 1, 520 1, 480 1, 880	13, 900 18, 400 35, 900 48, 200 51, 800 50, 400 40, 600 35, 200 28, 500	11 12 13 14 15 16 17 18 19 20	2, 000 2, 160 2, 040 1, 880 2, 200 2, 520 2, 960 3, 440 3, 680 3, 600	23, 700 20, 800 18, 100 16, 300 14, 200 12, 700 11, 400 9, 250 8, 300	21 22 23 24 25 26 27 27 28 29 30	3, 560 3, 720 4, 400 4, 850 4, 710 4, 870 6, 680 8, 330 10, 500	7, 700 7, 200 6, 250 4, 080 2, 520 2, 160 1, 520 1, 140 996 928 896
Monthly mean dischargeinches								17, 730 7. 27

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1958

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
Apr. 26	10 to	4 660	Apr. 30	00.00	10,400	May 3—Con.	20.05	27 400
12 p.m	18. 58	4,660	2 a.m 8 a.m 10 p.m 12 p.m	29. 08 29. 29 29. 31 29. 76	10, 400 10, 500 10, 500 10, 900	12 m	39. 05 39. 42	37, 400 45, 400
4 p.m 12 p.m	18. 88 20. 47	4, 790 5, 510	May 1 6 a.m	33, 57	14, 800	12 p.m	39. 67	50, 900
Apr. 28 6 a.m 12 m	22. 30 23. 18	6, 400 6, 840	12 m 6 p.m 12 p.m	32.85 32.80 34.22	13, 800 13, 800 15, 700	May 5 6:30 p.m 12 p.m	39. 74 39. 72	52, 500 52, 000
6 p.m	23. 70 23. 97	7, 100 7, 240	May 2 6 a.m	34. 51 35. 26	16, 200 17, 300	May 6		
6 a.m 12 m	24. 00 25. 15	7, 250 7, 830	12 p.m	37.82	23, 400	12 p.m May 7	39. 57	48, 700
11 p.m 12 p.m	29. 25 29. 18	10, 500 10, 400	6 a.m	3 8. 7 0	30, 500	12 p.m	39. 34	43, 700

RED RIVER BASIN

16. RED RIVER AT ARTHUR CITY, TEX.

Location.—Lat 33°53′, long 95°30′, in NW¼ sec. 11, T. 6 S., R. 17 E., near right bank on downstream side of pier of bridge on U.S. Highway 271 at Arthur City, Lamar County, 10.6 miles downstream from Muddy Boggy River, 26.0 miles upstream from Kiamichi River, and at mile 633.1.

Drainage area.—44,531 sq mi, of which 5,936 sq mi is probably noncontributing. Gage-height record.—Water-stage recorder graph except Apr. 1-29, and May 3-31, when graphs were drawn on basis of at least twice-daily wire-weight gage readings. Datum of gage is 380.07 ft above mean sea level, datum of 1929.

Discharge record.—Stage-discharge relation defined by current-meter measurements.

Maxima.—April-May 1958: Discharge, 120,000 cfs 5 p.m. May 3 (gage height, 26.35 ft).

 $1905\text{--}11,\,1936$ to March $1958\colon$ Discharge, $400,\!000$ cfs May 28, 1908 (gage height, 43.2 ft).

Maximum stage known, that of May 28, 1908.

Remarks.—Some regulation by Lake Texoma 92.8 miles above station.

Cooperation.—Records collected and computed by Corps of Engineers and reviewed by Geological Survey.

Mean discharge, in cubic feet per second

Day	April	Мау	Day	April	Мау	Day	April	Мау
1	9, 450 8, 170 7, 690 8, 170 7, 210 5, 830 4, 330 2, 720 3, 350 4, 840	35, 300 56, 700 110, 000 82, 000 48, 800 35, 400 31, 800 28, 000 28, 000 39, 100	11	4, 950 4, 230 2, 720 1, 630 2, 150 3, 630 4, 330 5, 830 6, 270 6, 050	39, 900 46, 300 38, 400 30, 600 23, 400 12, 800 11, 300 9, 800 8, 880	21 22 23 24 25 26 27 27 28 29 30	7, 210 11, 300 14, 400 14, 400 12, 100 9, 970 11, 800 12, 100 24, 900	8, 660 8, 440 8, 000 9, 560 9, 800 8, 880 6, 950 8, 660 5, 950 6, 950
Monthly me	ean dischar	ge			thousand	ls of acre-feet	7, 784 463. 2	26, 460 1, 627

17. KIAMICHI RIVER NEAR BELZONI, OKLA.

Location.—Lat 34°12′, long 95°29′, in SE¼ sec. 14, T. 4 S., R. 17 E., near right bank on downstream side of bridge on State Highway 7, 1¾ miles northwest of Belzoni, 6.5 miles downstream from Cedar Creek, 10 miles upstream from Possum Creek, and at mile 47.7.

Drainage area.—1,423 sq mi.

Gage-height record.—Water-stage recorder graph. Datum of gage is 389.91 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

Discharge record.—Stage-discharge relation defined by current-meter measurements

Maxima.—April-May 1958: Discharge, 55,200 cfs 4 a.m. May 3 (gage height, 40.78 ft).

1925 to March 1958: Discharge, $71{,}400$ cfs Feb. 18, 1938 (gage height, $44.0~\mathrm{ft}).$

Maximum stage known, 44.2 ft in October 1915, from information by local residents.

Cooperation.—Records collected and computed by Corps of Engineers and reviewed by Geological Survey.

Day	April	May	Day	April	May	Day	April	May
1	2, 570 2, 050 2, 710 2, 500 2, 310 1, 720 1, 450 1, 120 1, 090 1, 540	2, 710 34, 700 50, 000 39, 600 28, 900 10, 700 3, 940 2, 310 1, 660 3, 900	11	1, 300 1, 270 1, 150 1, 450 2, 440 2, 440 1, 860 1, 450 1, 210 3, 100	3, 840 2, 380 1, 660 1, 270 970 820 738 666 505 396	21	9, 010 6, 790 4, 040 2, 380 1, 720 1, 450 2, 500 2, 310 2, 180 1, 860	337 301 260 232 213 204 187 175 167 172
Monthly me Runoff Runoff		~			thousand	s of acre-feet inches_	2, 366 140. 8 1. 85	6, 261 385 5. 07

Mean discharge, in cubic feet per second

18. RED RIVER AT INDEX, ARK.

Location.—Lat 33°33'05", long 94°02'25", in SW¼ sec. 7, T. 14 S., R. 28 W., near right bank on downstream side of pier of bridge on U.S. Highway 71 at Index, 2¼ miles south of Orden, 20.6 miles upstream from Little River, and at mile 485.3.

Drainage area.—48,030 sq mi of which 5,936 is probably noncontributing.

Gage-height record.—Water-stage recorder graph. Datum of gage is 246.87 ft above mean sea level, datum of 1929.

Discharge record.—Stage-discharge relation defined by current-meter measurements. Discharge computed from loop curves at times.

Maxima.—April-May 1958: Discharge, 145,000 cfs 6 a.m. May 6 (gage height, 25.32 ft in gage well; 25.8 ft from outside gage).

1936 to March 1958: Discharge, 297,000 cfs Feb. 23, 1938 (gage height, 4.25 ft).

Remarks.—Some regulation by Lake Texoma 241 miles upstream (capacity, 5,530,300 acre-ft).

Mean discharge, in cubic feet per second

Day	April	Мау	Day	April	Мау	Day	April	Мау
1	14, 800 16, 400 14, 800 13, 300 12, 700 12, 100 11, 800 10, 400 8, 800 7, 650	54, 700 74, 500 98, 000 125, 000 140, 000 143, 000 110, 000 80, 500 66, 000 51, 500	11	7, 430 8, 330 9, 040 8, 800 8, 100 7, 430 7, 430 7, 870 8, 100 8, 330	45, 500 46, 000 50, 200 51, 700 41, 300 35, 700 27, 500 20, 000 17, 500 15, 300	21	8, 330 8, 560 12, 400 19, 300 22, 400 24, 600 31, 200 37, 900 39, 300 41, 400	13, 000 11, 300 10, 500 9, 650 9, 200 9, 400 10, 500 8, 500 8, 100 8, 950
Monthly me	an dischar	ge			thousand	ls of acre-feet	14, 970 890. 6	45, 260 2, 783

19. LITTLE RIVER NEAR WRIGHT CITY, OKLA.

- Location.—Lat 34°04′, long 95°03′, on north edge of NW¼ sec. 6, T. 6 S., R. 22 E., on left bank on downstream side of bridge on State Highway 98, 1¾ miles upstream from White Oak Creek and 2 miles west of Wright City. Orainage area.—645 sq mi.
- Gage-height record.—Water-stage recorder graph. Datum of gage is 346.76 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).
- Discharge record.—Stage-discharge relation defined by current-meter measurements. Rate of change in stage used as a factor in discharge computations at times. Backwater from return of overbank flow at times.
- Maxima.—April-May 1958: Discharge, 44,600 cfs 9-10 p.m. May 2; gage height, 41.63 ft 11 p.m. May 2.

1929–31, 1944 to March 1958: Discharge, 75,400 cfs Sept. 16, 1950 (gage height, 45.77 ft).

Day	April	May	Day	April	Мау	Day	April	Мау
1	1, 350 1, 080 1, 380 1, 460 1, 410 1, 270 975 796 1, 320 1, 520	2, 560 27, 400 29, 000 7, 870 4, 300 2, 890 1, 970 1, 340 1, 130 2, 110	11	1, 340 1, 110 940 1, 110 1, 570 1, 460 1, 180 975 828 1, 370	1, 670 1, 090 818 642 520 421 347 292 254 220	21	4, 150 2, 470 1, 630 1, 210 933 953 2, 730 2, 210 1, 810 1, 600	218 174 158 140 134 118 104 104 101 90 83
Monthly me Runoff Runoff		_			_thousand	is of acre-feet inches	1, 471 87. 55 2. 55	2, 847 175. 1 5. 09

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1958

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
Apr. 25			May 1			May 3—Con.		
Apr. 20		i	"			May 5—Con.	ĺ	
12 p.m	8. 22	840	2 a.m	10.82	1,760	3 p.m	38. 12	24, 200
Apr. 26			6	11.00 11.16	1,830 1,880	4 5	37.60 37.15	22, 100 20, 500
-	0.05		8	11.32	1,950	6	36. 70	19,000
6 a.m 12 m	8. 25 8. 42	850 904	10 12 m	11.55 11.98	2,070 2,300	8	36.30 35.90	17,800 16,400
6 p.m	8.44	911	2 p.m.	12. 55	2,600	9	35.50	15, 200
8 10	8. 65 9. 50	978 1, 270	6	13. 28 14, 15	2, 980 3, 390	11 12 p.m	34.80 34.40	13, 400 12, 400
12 p.m	10.75	1, 690	8	14. 80	3,570		34. 40	12, 100
Apr. 27			10	15. 18 15. 32	3, 620 3, 660	May 4	90.70	
1 a.m	11. 35	1,900	May 2			2 a.m	33.70 33.00	11,000 9,800
2	12.04	2, 160				6	32.30	8,900
3 4	12. 60 13. 05	2,380 2,560	1 a.m	15. 34 15. 50	3, 660 4, 030	8	31.85 31.30	8,500 8,000
5	13. 38	2,700	3	16.05	4, 850	12 m	30.60	7,500
6	13. 64 13. 82	2,810	4	17. 20	6, 250	6 p.m	28.50	6,300
7 8	13. 93	2, 880 2, 930	5 6	19, 10 22, 80	9,000 12,300	12 p.m	26.18	5, 400
9	13.98	2,950	7	26. 20	15, 300	May 5		
10	13.99 13.99	2,960 2,960	8	29.50 32.60	18,800 23,100	2 a.m	25, 42	5, 200
12 m	13. 97	2,950	10	35.00	26,600	4	24,65	4,950
4 p.m	13. 82 13. 62	2, 880 2, 800	11 12 m	36.80	29, 400	8	23. 22 21. 85	4, 550 4, 250
8 12 p.m	13. 23	2,640	1 p.m	38.00 38.80	31, 500 33, 600	12 m 2 p.m	21.20	4, 150
-		,	2	39.48	36, 100	4	20.55	4,000
Apr. 28			3 4	40.00 40.40	38, 100 39, 300	6	19.84 18.64	3, 800 3, 500
6 a.m	12.56	2,360	5	40.70	40,400	12 p.m	18.08	3, 400
12 m	12. 13 11. 67	2, 190 2, 020	6	40.90 41.11	41,300 42,600	May 6	l	
12 p.m	11.37	1,910	9	41.46	44,600	19169		
Apr. 29			10	41. 58	44,600	6 a.m	16. 54 15. 20	3, 100 2, 850
Apr. 20			11 12 p.m	41, 63 41, 61	44,000 43,800	12 m 6 p.m	14.00	2,650
6 a.m	11.17	1,840	1 -		-2,300	12 p.m	12.96	2,520
12 m 6 p.m	10. 97 11. 00	1,770 1,780	May 3			May 7		
12 p.m	10.98	1,770	2 a.m	41. 41	42, 200			
Apr. 30			3	41. 21	40,500	6 a.m	12, 10 11, 42	2, 180 1, 930
-)	4 5	41.00 40.84	39,000 37,800	12 m	10.86	1,730
12 m	10. 29	1,530	6	40. 77	37, 300	12 p.m	10.38	1,570
2 p.m	10. 22 10. 20	1, 510 1, 500	8	40.77 49.61	37, 300 36, 300	May 8		
6	10.24	1,520	10	40.40	35,000			
8	10.33 10.44	1,550 1,590	11	40.00 39.56	32, 900 30, 500	6 a.m 12 m	9. 95 9. 66	1,420 1,320
12 p.m	10.44	1,650	12 m 2 p.m	38.64	26, 500	12 p.m		1, 160
-		1	1 -		ı ' ' ' l		I	1

20. LITTLE RIVER BELOW LUKFATA CREEK, NEAR IDABEL, OKLA.

Location.—Lat 33°56′, long 94°45′, in SE¼ sec. 14, T. 7 S., R. 24 E., on left bank at downstream side of bridge on U.S. Highway 70, just downstream from Lukfata Creek, and 5 miles northeast of Idabel.

Drainage area.—1,226 sq mi.

Gage-height record.—Water-stage recorder graph. Datum of gage is 312.08 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

Discharge record.—Stage-discharge relation defined by current-meter measurements. Rate of change in stage used as a factor in discharge computations at times. Backwater from return of overbank flow at times.

Maxima.—April-May 1958: Discharge, 40,700 cfs 9 a.m. May 4; gage height, 35.01 ft 11 a.m. May 4.

1946 to March 1958: Discharge, 76,000 cfs Jan. 26, 1949 (gage height, 39,22 ft).

Maximum stage known, 39.7 ft in February 1938, from information by local residents (discharge, 86,000 cfs).

Day	April	Мау	Day	April	May	Day	April	Мау
1	3, 160 2, 410 2, 200 2, 920 2, 870 2, 560 2, 130 1, 630	6, 660 10, 500 17, 900 37, 800 27, 300 16, 900 11, 400 6, 630	11	3, 140 2, 550 1, 990 1, 870 2, 290 2, 770 2, 440 1, 950	3, 360 2, 510 1, 670 1, 260 1, 040 880 751 625	21	2, 920 5, 050 3, 980 2, 630 1, 840 1, 850 6, 760 6, 890	401 360 330 304 285 260 240 231
9	1, 710 3, 010	3, 740 2, 790	19	1, 620 1, 450	545 459	30 31	5, 620 4, 620	24' 22' 20'
Monthly me Runoff Runoff					thousands	of acre-feet	2, 928 174.2 2.66	5, 091 313 4 .77

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1958

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
Apr. 25 12 p.m	10. 16	1,710	Apr. 30—Con. 8 12 p.m	15. 63 15. 76	4, 670 4, 740	May 4	33. 48 33. 80 34. 08	33, 100 34, 900 36, 200
2 a.m	10. 36 10. 38 10. 32 10. 20 10. 14 10. 08 10. 06 10. 45 10. 95 11. 60 12. 30	1, 810 1, 820 1, 790 1, 730 1, 670 1, 670 1, 670 1, 710 1, 850 2, 100 2, 440 2, 820 3, 060	May 1 1 a.m	15. 90 16. 65 17. 15 17. 87 18. 32 18. 80 19. 18 19. 47 19. 75 19. 78 19. 78	5, 110 5, 920 6, 240 6, 400 6, 620 7, 020 7, 130 7, 040 7, 040 6, 940	4	34. 30 34. 50 34. 66 34. 77 34. 87 34. 98 35. 01 35. 00 34. 99 34. 88 34. 63 34. 46 34. 29	37, 400 38, 500 39, 300 40, 500 40, 500 40, 500 40, 200 39, 800 36, 800 35, 700 34, 100
Apr. 27 1 a.m	13. 24 14. 75 15. 30 15. 80 16. 35 16. 85	3, 330 4, 170 4, 480 4, 760 5, 070 5, 350	1 a.m. 2 3 4 5 6	19. 68 19. 62 19. 57 20. 20 21. 10 22. 00 22. 58	6, 840 6, 820 7, 470 8, 810 9, 700 10, 000 9, 960	4 a.m	33. 96 33. 56 32. 78 32. 40 32. 00	32, 200 29, 600 24, 800 22, 800 21, 000
9	17. 32 17. 75 18. 14 18. 45 18. 74 18. 93 19. 30 19. 40 19. 48	5, 610 5, 860 6, 090 6, 270 6, 440 6, 550 6, 760 6, 820 6, 860	8	22. 98 23. 23 23. 45 23. 70 23. 96 24. 20 24. 60 24. 95 25. 35	9, 810 9, 810 9, 970 10, 200 10, 400 10, 700 11, 300 11, 500 11, 800	4 a.m	31. 58 31. 14 30. 68 30. 23 29. 30	19, 400 17, 900 16, 700 15, 400 13, 800
8 10 12 p.m Apr. 28	19. 57 19. 72 19. 82	6, 920 7, 000 7, 060	5	25. 65 25. 95 26. 20 26. 43 27. 26	12, 000 12, 100 12, 300 12, 400 13, 200	4 a.m 8	28. 79 28. 26 27. 66 26. 97 26. 18 25. 30	13, 100 12, 300 11, 400 10, 600 9, 760 9, 040
4 a.m	19, 93 19, 93 19, 73 19, 42 18, 55	7, 130 7, 130 7, 010 6, 830 6, 320	May 3 1 a.m	27. 47 27. 68 28. 30 28. 48	13, 500 13, 700 14, 500 14, 600	May 8 4 a.m	24. 32 23. 20 21. 92	8, 190 7, 320 6, 460
Apr. 29 4 a.m 84 p.m	18. 05 17. 54 17. 02 16. 63	6, 040 5, 740 5, 450 5, 230	10 11 1 p.m 2 3 4	29. 06 29. 23 29. 57 29. 75 29. 98 30. 20	15, 400 15, 900 16, 500 17, 100 17, 600 18, 000	4 p.m	20. 60 19. 08 17. 65	5, 750 5, 140 4, 810
12 p.m Apr. 30 8 a.m	16. 21	4, 990 4, 530	5	30. 42 30. 66 30. 97 31. 33 31. 74	18, 800 19, 700 21, 000 22, 400 24, 400	4 a.m	16. 28 14. 10 13. 39 13. 10 12. 77	4, 530 3, 540 3, 270 3, 180 3, 010
12 m 4 p.m	15.08	4, 360 4, 530	10 12 p.m	32. 22 33. 10	26, 900 31, 100	,		5,520

21. MOUNTAIN FORK RIVER NEAR EAGLETOWN, OKLA.

Location.—Lat 34°03′, long 94°37′, in SE¼ sec. 7, T. 6 S., R. 26 E., near center of span on downstream side of pier of bridge on U.S. Highway 70, 2 miles west of Eagletown and 8.9 miles upstream from mouth.

Drainage area.—787 sq mi.

Gage-height record.—Water-stage recorder graph. Datum of gage is 333.87 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

Discharge record.—Stage-discharge relation defined by current-meter measurements.

Maxima.—April-May 1958: Discharge, 41,300 cfs 5 a.m. May 3 (gage height, 18.52 ft).

1924-25, 1929 to March 1958: Discharge, 91,500 cfs Feb. 12, 1950, from rating curve extended above 65,000 cfs; maximum gage height, 25.80 ft Mar. 29, 1945.

Maximum stage known, 26.4 ft Aug. 18-19, 1915, from information by local residents (discharge, 92,500 cfs).

Mean discharge, in cubic feet per second

Day	April	Мау	Day	April	Мау	Day	April	Мау
1	1, 850 1, 540 1, 410 2, 490 2, 160 1, 890 1, 530 1, 250 1, 560 2, 940	4, 120 18, 100 36, 800 13, 700 6, 170 4, 000 2, 820 2, 140 2, 310 4, 790	11	2, 660 2, 130 1, 740 1, 580 2, 320 2, 700 2, 250 1, 850 1, 520 1, 390	3,770 2,580 1,890 1,430 1,090 1,000 1,230 756 579 478	21	4, 990 3, 850 2, 760 2, 100 1, 680 1, 720 8, 020 6, 190 3, 830 2, 890	408 347 300 261 240 228 231 243 205 268 340
Monthly me Runoff Runoff	an dischar	ge			thousan	ls of acre-feet inches	2, 560 152. 3 3. 63	3, 639 223, 8 5, 33

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1958

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
Apr. 25			Apr. 30			May 3—Con.		
12 p.m	4.77	1,580	6 a.m	5.87	3,000	1 p.m	18. 14	39, 200
Apr. 26			12 m 6 p.m	5. 74 5. 72	2,820 2,790	3	18. 08 17. 93	38, 900 38, 200
6 a.m.	4.77	1,580	12 p.m	5. 66	2,700	5	17. 73 17. 47	37, 200 35, 900
12 m	4.73	1,520	May 1			6	17.09	34, 100
6 p.m	4. 70 4. 84	1, 390 1, 650	2 a.m	5.80	2,900	7 9	16. 72 15. 82	32, 400 28, 800 27, 300
9	5. 07 5. 50	1, 930 2, 480	6	6. 27 6. 92	3, 620 4, 740	10	15. 42 15. 05	27,300 26,000
11 12 p.m	6. 10	3,350	8	7.20	5, 260	12 p.m	14.72	24, 900
· 1	6.68	4,310	10 2 p.m	7. 12 6. 75	5, 110 4, 430	May 4		
Apr. 27			4 6	6. 59 6. 45	4, 150 3, 920	4 a.m.	13. 27	20, 100
1 a.m	7. 04 7. 40	4, 960 5, 650	8	6.33	3,720 4,650	6	12.43 11.65	17,600 15,400
3	7. 90	6,600	12 p.m	6.30	3,670	10	11.00	13,600
4 5	8. 26 8. 49	7, 280 7, 720	May 2	Ï		12 m 2 p.m	10.48 9.92	12,300 10,900
6	8. 61 8. 60	7, 950 7, 930	2 a.m	6.44	3,900	6	9. 55 9. 25	10,000 9,300
8	8. 51	7,740	3	6.61	4, 190	8	8.98	8,660
9	8. 33 8. 18	7, 410 7, 120	4 5	6. 92 7. 38	4,740 5,610	10 12 p.m	8. 72 8. 53	8, 160 7, 790
11 12 m	8. 12 8. 20	7, 010 7, 160	6	8.30 8.94	7,340 8,600	May 5		
1 p.m	8.42	7,580	8	9.16	9,080		0.15	7 000
3	8. 70 8. 96	8,010 8,620	9	9. 33 9. 58	9,490 10,100	4 a.m 8	8. 15 7. 90	7,080 6,600
4 5	9. 20 9. 37	9, 180 9, 590	11 12 m	10. 18 10. 92	11,600 13,400	12 m	7. 66 7. 40	6, 130 5, 650
6 7	9. 49 9. 53	9, 880 9, 970	1 p.m	11.77 12.64	15, 700 18, 200	8	7. 18	5, 220 4, 840
8	9. 52	9,950	3	13.65	21,300	12 p.m	6. 98	4,040
9 10	9.46 9.36	9,800 9,560	5	14.82 15.71	25, 200 28, 400	May 6		
11 12 p.m.	9. 20 9. 04	9, 180 8, 800	6	16.36 16.85	30, 900 33, 000	6 a.m 12 m	6. 70 6. 47	4, 340 3, 970
_	0.01	0,000	8	17. 27	34, 900	6 p.m	6.27	3,620
Apr. 28			9 10	17.60 17.84	36, 500 37, 700	12 p.m	6.08	3,320
2 a.m	8. 70 8. 40	8, 110 7, 540	11 12 p.m	17. 99 18. 08	38, 500 38, 900	May 7		
6 8	8. 15 7. 92	7, 080 6, 640	May 3	20.00	,000	6 a.m	5. 90 5. 73	3, Q50 2, 800
10	7.73	6, 280	,			12 m 6 p.m	5. 58	2,590
12 m 4 p.m	7. 58 7. 27	5, 990 5, 390	1 a.m	18. 18 18. 25	39, 500 39, 800	12 p.m	5. 44	2, 400
8	7. 16 7. 04	5, 180 4, 960	3	18. 39 18. 48	40, 600 41, 100	May 8		
12 p.m	6.81	4, 540	5	18. 52	41,300	6 a.m	5.33	2,260
Apr. 29			6	18. 50 18. 44	41, 200 40, 900	12 m 6 p.m	5, 23 5, 13	2, 130 2, 010
6 a.m	6. 57	4, 120	8	18. 33 18. 24	40, 300 39, 800	12 p.m	5.04	1, 900
12 m	6.38	3,800	10	18. 19	39,500			
6 p.m 12 p.m	6. 20 6. 02	3, 510 3, 230	11 12 m	18. 18 18. 17	39, 500 39, 400			

22. ROLLING FORK NEAR DeQUEEN, ARK.

Location.—Lat 34°03′, long 94°25′, in SW½ sec. 21, T. 8 S., R. 32 W., near center of span on downstream side of pier of bridge on U.S. Highway 70, 4 miles west of DeQueen, 6 miles upstream from Rock Creek, and 17 miles upstream from mouth.

Drainage area.-181 sq mi.

Gage-height record.—Water-stage recorder graph. Datum of gage is 318.24 ft above mean sea level, datum of 1929.

Discharge record.—Stage-discharge relation defined by current-meter measurements.

Maxima.—April-May 1958: Discharge, 13,800 cfs 8 p.m. May 2 (gage height, 18.73 ft).

1948 to March 1958: Discharge, 34,000 cfs May 11, 1953 (gage height, 21.96 ft).

Maximum stage known, 25.6 ft from floodmarks, Aug. 27, 1947 (discharge, 110,000 cfs from contracted-opening measurement of peak flow).

Day	April	Мау	Day	April	Мау	Day	April	Мау
1	310 263 294 231 194 169 146 127 182 387	3, 240 7, 500 8, 100 2, 360 1, 110 695 480 350 583 1, 770	11	357 273 223 252 316 357 308 261 226 229	1, 040 609 401 273 203 155 127 106 97 86	21	567 476 355 275 220 382 4, 800 1, 800 982 726	76 66 59 52 46 42 37 35 31 28
						Is of acre-feet inches_	523 31. 12 3. 22	961 59. 08 6. 12

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1958

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
Apr. 25			Apr. 29			May 2-Con.		
12 p.m	4.34	209	4 a.m	7.64	1,080	6 p.m	18.34	12,400
			8 12 m	7.40 7.27	1,000 956	7 8	18.60 18.73	13, 300 13, 800
Apr. 26			4 p.m	7.28	959	9	18.69	13,600
0	4 40	900	8	7. 10	898	12 p.m	18.61	13, 300
2 a.m 4	4. 43 4. 76	223 279	12 p.m	6.87	822	May 3		
6	4. 92	310	Apr. 30			1	l	
8	5. 11 5. 20	350 370	4 a.m	6, 68	762	1 a.m	18.60 18.52	13,300 13,000
12 m	5. 21	372	8	6.53	714	3	18.38	12,500
4 p.m	5. 14	357	12 m	6.39	669	4	18.10	11,600
6 8	5. 17 5. 34	363 404	4 p.m	6.34 6.64	654 749	5 6	17.80 17.54	10,700 10,000
9	5.58	461	12 p.m	6.80	800	7	17.37	9,630
10 11	6.06	578 794	7.5			8	17.25	9,350
12 p.m	6. 78 7. 67	1, 100	May 1			9	17. 07 16. 80	8, 950 8, 400
] -, 200	1 a.m	6. 79	797	11	16.51	7,820
Apr. 27			2	6.80	800 816	12 m	16. 25 16. 10	7,310 7,040
-		[3 4	6.85 7.13	908	1 p.m	16.00	6,860
1 a.m	8. 91	1,580	5	7. 90	1, 180	3	15.90	6,700
2 3	10. 13 11. 09	2, 120 2, 540	6 7	9. 26 10. 72	1,730 2,480	4 5	15. 77 15. 60	6, 490 6, 220
4	12.00	2,990	8	11.72	2,850	6	15.36	5, 860
5	13.00	3,500	9	12.43	3,200	7	15.10	5, 490
6 8	14. 10 16. 06	4,340 6,970	10	13. 01 13. 55	3, 510 3, 880	8	14.82 14.52	5, 120 4, 760
9	16. 57	8,140	12 m	14.08	4,320	10	14.20	4, 430
10 11	16.73 16.66	8, 260 8, 120	1 p.m	14. 43	4,660	11	13.89	4, 150 3, 900
12 m	16.45	7,700	3	14.69 14.79	4,960 5,080	12 p.m	13.57	3, 900
2 p.m	15.72	6,410	4	14.77	5,050	May 4	İ	
3 4	15.33 14.93	5,820 5,260	5 6	14. 64 14. 45	4, 900 4, 680	2 a.m	12.95	3,470
5	14. 53	4,770	7	14. 21	4, 440	4	12.33	3, 160
6 7	14. 13	4,370	8	13. 93	4, 190	6	11.77	2,880
8	13. 73 13. 33	4,020 3,710	9	13.66 13.36	3, 970 3, 730	8	11.24 10.77	2,610 2,400
9	12.96	3,480	11	13.05	3, 530	12 m	10.40	2,240
10	12.58 12.23	3, 280 3, 100	12 p.m	12.75	3,360	2 p.m	10.00 9.63	2,060 1,900
12 p.m.	11.88	2, 930	May 2			8	9.07	1,650
-			1.	40.44		12 p.m	8.60	1, 450
Apr. 28		1	1 a.m	12.41 11.89	3, 200 2, 940	May 5		
			4	11.87	2,920	111490		
1 a.m	11, 55 11, 23	2,760 2,610	5	12.00	2,990	4 a.m	8. 24 7. 93	1,310 1,190
3	10.93	2, 470	6 7	12. 52 13. 64	3, 250 3, 950	8 12 m	7. 67	1, 190
4	10.69	2,360	8	14. 70	4, 970	4 p.m	7.40	1,000
6 7	10.27 9.97	2,180 2,050	9	15.30 15.54	5, 770 6, 130	8 12 p.m	7. 16 6. 95	918 848
8	9. 75	1,950	11	15. 52	6, 100	_	0. 20	070
9	9.57	1,870	12 m	15.42	5,950	May 6		
12 m 4 p.m	9. 10 8. 62	1,660 1,460	1 p.m	15.42 15.88	5, 950 6, 670	6 a.m	6, 69	765
8	8.23	1,300	3	16.38	7, 560	12 m	6.45	688
10	8.05	1,230	4	17. 20	9,240	6 p.m	6.23	622 562
12 p.m	7. 90	1, 180	5 p.m	17. 90	11,000	12 p.m	6.00	002

23. LITTLE RIVER NEAR HORATIO, ARK.

Location.—Lat 33°55'10", long 94°23'15", in NE¼ sec. 10, T. 10 S., R. 32 W., on left bank on downstream side of pier of bridge on State Highway 41, 0.9 mile downstream from Rolling Fork, 2 miles southwest of Horatio, and 28.5 miles upstream from Cossatot River.

Drainage area.—2,674 sq mi.

Gage height record.—Water-stage recorder graph. Datum of gage is 272.89 ft above mean sea level, datum of 1929.

Discharge record.—Stage-discharge relation defined by current-meter measurements. Rate of change in stage used as a factor in discharge computations at times. Backwater from return of overbank flow at times.

Maxima.—April-May 1958: Discharge, 63,600 cfs 12 p.m. May 3 to 1 a.m. May 4 (gage height, 32.72 ft).

1930 to March 1958: Discharge, 120,000 cfs Mar. 30, 1945 (gage height, 37.70 ft), from rating curve extended above 93,000 cfs.

Maximum stage known, 38 ft sometime in August 1915 (discharge, 124,000 cfs).

Day	April	Мау	Day	April	Мау	Day	April	Мау
1	6, 260 5, 140 4, 550 5, 040 5, 820 4, 970 4, 440 3, 720 3, 520 5, 280	20, 500 30, 000 55, 300 59, 800 50, 000 42, 300 31, 000 22, 300 14, 100 11, 200	11	6, 720 5, 890 4, 770 4, 470 5, 150 5, 960 5, 720 4, 830 4, 020 3, 580	10, 700 7, 940 5, 480 3, 980 3, 070 2, 390 2, 390 1, 880 1, 500 1, 270	21	5, 280 4, 990 8, 180 6, 300 4, 630 5, 230 16, 700 23, 400 19, 000	1, 100 959 828 740 665 615 576 581 563 550 576
Monthly me Runoff Runoff	an dischar	ge			thousand	ds of acre-feet inches	6, 952 413. 7 2. 90	12, 410 763. 2 5. 35

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1958

lage Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	Apr.30-Con.			May 6		
4, 120	6 p.m 12 p.m	20. 20 19. 92	14, 200 14, 400	6 a.m 12 m	30. 95 30. 68	45, 000 42, 600
0. 56 4, 290	May 1			6 p.m 12 p.m	30. 32 29. 85	39, 800 36, 500
0.80 4,560 0.97 4,670	2 a.m	19. 98 20. 97	15, 400 18, 600	May 7		
1. 23 4, 910 1. 35 5, 010 1. 50 5, 150	8 12 m 2 p.m	21.72 22.82 23.31	19, 800 21, 200 21, 800	4 a.m 12 m	29. 58 28. 92	34, 800 30, 600
1. 68 5, 370 1. 87 5, 540	6	23.80 24.25	22, 700 23, 200	4 p.m	28, 55 28, 15	29, 100 27, 700
2. 10 5, 870 2. 55 6, 560 3. 50 7, 960	8 10 12 p.m	24.60 24.90 25.12	23, 400 23, 500 23, 700	12 p.m May 8	27. 70	26, 200
	May 2	i		4 a.m 12 m	27. 22 26. 14	24, 800 22, 600
4. 04 8, 650 4. 62 9, 400	2 a.m	25. 28 25. 55	23, 900 25, 200	12 p.m	24.00	18, 100
.5. 17 10, 200 .6. 20 11, 400 .6. 75 12, 400 .7. 24 12, 900 .7. 74 13, 700	8 12 m	26.05 26.50 27.40	26, 600 27, 200 29, 000	May 9	23, 10	16, 500
7. 24 12, 900 7. 74 13, 700 8. 24 14, 600	2 p.m	27. 84 28. 32 28. 82	30, 300 31, 700 33, 600	8 12 m 4 p.m	22.10 21.10 20.20	15, 000 14, 100 12, 900
9. 80 17, 600 0. 34 18, 400	8	29.30 29.70	35, 300 37, 400	8 12 p.m	19. 10 18. 15	11, 600 10, 900
21. 68 20, 500 21, 800 21, 300	12 p.m	30. 26	40, 300	May 10		
22. 72 21, 600 23. 60 22, 800	2 a.m	30.60	42, 200 45, 300	4 a.m	17. 57 17. 39	10, 800 11, 000 11, 200
23, 300 24, 14 23, 400	6 8	31. 00 31. 38 31. 70	48, 900 52, 200	4 p.m 12 p.m	17. 47 17. 94	11, 200
20 500	10 12 m	32.00 32.22	55, 500 57, 900	May 11	17 01	11 500
24. 35 23, 500 24. 57 24, 000 24. 78 24, 200	2 p.m	32. 38 32. 50 32. 60	59, 700 61, 000 62, 200	6 a.m 6 p.m 12 p.m	17. 91 16. 89 16. 22	11, 500 10, 100 9, 300
25. 15 24, 400 25. 27 24, 300 25. 40 24, 300	8 10 12 p.m	32. 67 32. 70 32. 72	62, 200 63, 000 63, 400 63, 600	May 12		
25. 50 24, 100 25. 70 24, 100	May 4	32. (2	05, 000	6 a.m 12 m	15. 51 14. 78	8, 680 7, 940
25. 77 23, 700 25. 77 23, 700 25. 65 22, 800	1 a.m	32. 72 32. 67	63, 600 63, 000	6 p.m 12 p.m	14.02 13.29	7, 200 6, 580
25. 20 21, 600	8	32.65 32.60	62, 800	May 13	10.00	
24, 50 20, 000	12 m	32.43	61, 500 60, 200 57, 200	12 m	11.99	5, 940 5, 430 4, 960
23. 75 18, 800 23. 10 18, 000	12 p.m	31. 85	53, 800	12 p.m	11.01	4, 570
10,800		91 64	E1 500		10.61	4, 260
21. 60	12 m 6 p.m	31.44 31.30	49, 400 48, 500	12 m 6 p.m	10. 29 9. 95	3, 980 3, 690 3, 450
23.10 22.38	18, 000 16, 800	20, 000 13, 800 12 p.m 12 p.m 12 p.m 12 p.m 15, 600 May 5	20, 000 18, 800 16, 800 16, 800 17, 600 18, 800 18, 00	10	12 m 32, 43 60, 200 12 m 12 m 32, 43 60, 200 6 p.m 12 p.m 31, 85 57, 206 6 p.m 12 p.m 13, 44 49, 400 12 m 12 m 15, 600 6 p.m 31, 30 48, 500 6 p.m 12 m 12	20,000 12 m 11. 99 6 p.m 11. 48 60,200 12 m 11. 99 6 p.m 11. 46 12 p.m 11. 01 11. 01 12 p.m 11. 01 12 p.m

24. COSSATOT RIVER NEAR DeQUEEN, ARK.

Location.—Lat 34°03′, Long 94°13′, on south edge of SE¼ sec. 20, T. 8 S., R. 30 W., on downstream side of pier of bridge on U.S. Highway 71, just downstream from Hale Creek and 7 miles east of DeQueen.

Drainage area.—361 sq mi.

Gage-height record.—Water-stage recorder graph. Datum of gage is 335.48 ft above mean sea level, datum of 1929.

Discharge record.—Stage-discharge relation defined by current-meter measurements.

Maxima.—April-May 1958: Discharge, 28,900 cfs 5 a.m. May 3 (gage height, 18.56 ft).

1938 to March 1958: Discharge, 46,900 cfs Aug. 28, 1947 (gage height, 20.47 ft).

Day	April	Мау	Day	April	Мау	Day	April	Мау
1	581 519 535 574 519 448 373 314 412 856	5, 830 11, 000 19, 700 6, 080 2, 520 1, 510 1, 030 1, 200 3, 180	11	821 685 574 613 816 920 794 677 578 554	2, 060 1, 250 843 635 483 373 299 244 223 214	21	1, 330 1, 000 764 620 507 839 8, 720 4, 100 2, 030 1, 410	176 147 123 109 98 93 93 86 81 81
Kunon						is of acre-feet inches	1, 116 66. 41 3. 45	1, 956 120. 3 6. 25

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1958

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
Apr. 25			Apr. 29—Con.			May 5—Con.		
12 p.m	5. 67	513	8	8.54	2, 110	4 a.m	18. 52	28, 600
A mm . 00			12 m	8.36	1,960	5	18.56	28, 900 28, 600
Apr. 26		i i	4 p.m 8	8. 28 8. 12	1, 900 1, 780	6 7	18. 52 18. 36	27, 500
4 a.m	6. 10	662	12 p.m	7. 90	1, 630	8	18.14	26,000
8 12 m	6. 40 6. 43	780 794	Apr. 30			10 11 a.m	17. 56 17. 26	22, 200 20, 400
6 p.m	6.40	780				1 p.m	16.75	17,600
8 9	6. 54 6. 80	843 970	4 a.m 8	7.71 7.56	1, 510 1, 410	3 4	16.30 16.13	15, 600 14, 900
10	7. 21	1,200	12 m	7.42	1,320	6	15.80	13,700
11 12 p.m	7.94 8.80	1,660 2,320	4 p.m	7.38	1,300	8	15.64 15.46	13, 200 12, 600
12 р.ш	8.80	2, 320	8 12 p.m	7. 46 7. 72	1, 350 1, 510	10	15.40	11,600
Apr. 27		\ \ \	· -		, -,	11	14.85	11, 100
1 a.m	9.68	3, 170	May 1			12 p.m	14.58	10, 500
2	10.45	4,020	2 a.m	7.74	1, 530	May 4		1
3 4	11.04 11.51	4,700 5,260	3	7.98 8.40	1,690	20 m	14.08	9, 460
5	11.96	5, 850	5	8.74	2,000 2,270	2 a.m	13.07	7, 570 6, 790
6	12.40	6,480	6	9.14	2,630	8		6, 790
7 8	12.84 13.34	7, 180 8, 050	7 8	9.84	3, 340 4, 290	10 12 m	12.16 11,75	6, 120 5, 580
9	13.90	9, 110	9	11.40	5, 130	2 p.m	11.38	5, 110
11 12 m	14.88 15.24	11, 100 12, 000	10	11.96 12.37	5, 840 6, 440	6	11.06 10.75	4, 720 4, 350
1 p.m	15.45	12,600	11 12 m	12.72	6, 980	8	10.47	4,040
2	15. 55	12,900	2 p.m	13.23	7,850	10 12 p.m	10.23	3,770
3 4	15, 51 15, 36	12, 800 12, 400	6	13. 52 13. 65	8, 390 8, 640	12 p.m	9.92	3, 430
6	14.81	11, 000	8	13.67	8, 670	May 5	l	
7 9	14.45 13.74	10, 200 8, 810	10 12 p.m	13.57 13.31	8, 480 8, 000	4 a.m	9. 54	3,020
10	13.40	8, 160	i -	10.01	0,000	8	9. 22	2,700
11	13.05 12.73	7,540	May 2			12 m		2, 460 2, 240
12 p.m	12, 13	7,000	2 a.m	12.94	7, 350	4 p.m 8	8. 70 8. 46	2, 040
Apr. 28			4	12.62	6, 820	12 p.m	8. 22	1, 860
1 a.m	12, 44	6, 540	6	12.66 12.90	6, 890 7, 280	May 6	1	Ì
2	12.16	6, 120	8	13.35	8,070			
3 4	11.90 11.66	5, 770 5, 460	9		8, 960 9, 740	6 a.m		1, 650 1, 500
5		5, 180	10		10, 400	12 m 6 p.m		1.350
6	11.22	4,910	12 m	14.67	10,700	12 p.m		1, 210
7 8		4, 690 4, 490	4 p.m 5	14.75 14.90	10, 900 11, 200	May 7	1	Ì
9	10.71	4,300	6	15.16	11,800			
10 12 m		4, 140 3, 830	8		12, 800 14, 400	6 a.m 12 m		1, 110 1, 020
2 p.m	10.06	3, 590	9	16.54	16, 700	6 p.m	6. 77	955
6	9. 78 9. 58	3, 280 3, 060	10		19,000 21,100	12 p.m	6,64	890
8	9.40	2, 880	11 12 p.m	17. 64	21, 100	May 8	Ì	
10	9. 23	2,710	_					004
12 p.m	9.08	2, 570	May 3	1		6 a.m		834 784
Apr. 29			1 a.m		24, 000	6 p.m	6.31	744
4 a.m	8.80	2,320	3 a.m		25, 700 27, 300	12 p.m	6. 21	704
	1 5.50	2,020	3 3.111	10.00	1 21,000	11	1	1

25. SALINE RIVER NEAR DIERKS, ARK.

Location.—Lat 34°06′, long 94°05′, in W½ sec. 3, T. 8 S., R. 29 W., near left bank on downstream side of pier of bridge on U.S. Highway 70, 3½ miles upstream from Holly Creek and 4 miles southwest of Dierks.

Drainage area.-124 sq mi.

Gage-height record.—Water-stage recorder graph. Datum of gage is 353.09 ft above mean sea level, datum of 1929.

Discharge record.—Stage-discharge relation defined by current-meter measurements.

Maxima.—April-May 1958: Discharge, 7,160 cfs 11 a.m. May 1 (gage height, 14.71 ft).

1938 to March 1958: Discharge, 31,200 cfs Mar. 30, 1945 (gage height, 19.93 ft), from rating curve extended above 16,000 cfs by velocity-area studies.

Maximum stage known, 21.9 ft sometime in 1920, from information by local resident.

Day	April	May	Day	April	Мау	Day	April	Мау
1	191 162 211 182 150 124 103 90 168 214	3, 950 4, 550 4, 550 1, 620 899 597 418 321 642 1, 010	11	233 200 168 304 545 409 311 245 208 251	620 421 294 214 158 105 82 60 49 42	21	284 226 188 162 143 524 3, 410 1, 170 716 542	36 27 24 21 20 22 18 17 17 17
		- 				ls of acre-feet inches	394 23, 47 3, 55	662 40. 73 6. 16

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1958

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
Apr. 25			Apr. 29			May 2-Con.		
12 p.m	5.82	143	6 a.m	7.36	761	12 m	14.07	6, 700
-	0.00		12 m	7. 26	703	1 p.m	13.60	6,140
Apr. 26			6 p.m	7. 21	676	2	12.97	5, 490
2 a.m.	5. 92	165	12 p.m	7.06	593	4	12.45 12.00	5,000 4,590
4	6.03	194	Apr. 30		i	5	11.74	4, 360
5	6. 16	233	120			6	11.77	4,380
6	6.63	397	6 a.m	6.95	535	7	12, 23	4,800
9	6. 78 6. 78	457 457	12 m 6 p.m	6. 86 6. 92	492 520	8	12.59 12.70	5, 120 5, 220
12 m	6.86	492	12 p.m	7.16	648	10	12.67	5, 190
6 p.m	6.71	429	-	•••	0.0	12 p.m	12.64	5, 170
7	6.71	429	May 1			·		1
8	6.82	474	1	# 10	004	May 3		ì
9	7.17 7.79	654 1,030	1 a.m	7. 19 7. 21	664 676	1 a.m	12.50	5,040
11	8.63	1,620	3	7. 43	803	2	12.10	4, 680
12 p.m	10. 22	2, 860	4	7.92	1, 120	3	11.65	4, 280
4 000			5	8.70	1,680	4	11.32	4,000
Apr. 27			6	10. 47 12. 17	3, 060 4, 470	5	11. 23 11. 67	3, 920 4, 290
1 a.m	11.57	3,950	8	13.57	5, 790	6 7	12.12	4, 700
2	12.65	4,900	9	14.37	6, 700	8	12. 54	5, 080
3	13. 45	5, 670	10	14.70	7, 150	9	12.90	5, 420
4	13.81	6,040	11	14.71	7,160	10	13. 25	5,770
5	13. 77 13. 35	6, 000 5, 570	12 m 1 p.m	14.67 14.40	7, 110 6, 740	11 12 m	13.30 13.12	5,820 5,640
7	12.57	5,000	2	13. 87	6, 110	1 p.m	12.72	5, 240
8	12, 12	4, 430	3	13. 22	5, 440	2	12.19	4,760
9	11.62	4,000	4	12.60	4, 860	3	11.70	4,320
10	11. 15 10. 75	3,600	5	12.00	4,320	4	11.20	3,900
12 m	10. 45	3, 280 3, 040	6	11.50 11.07	3, 900 3, 540	5	10. 87 10. 61	3, 620 3, 410
1 p.m	10. 22	2,860	8	10.72	3, 260	7	10.33	3,090
2	10.04	2,710	9	10. 43	3,020	8	10.12	3,020
3	9.79	2,510	10	10.20	2,840	9	9.84	2,790
5	9. 61 9. 48	2, 370 2, 260	11 12 p.m	9.92 9.73	2, 620 2, 460	10	9.70 9.57	2,680 2,580
6	9. 29	2, 120	12 p.m	8.15	2, 400	12 p.m	9, 43	2, 460
7	9.14	2,000	May 2]	_	0.20] -, 100
8	9.03	1,920	-	١		May 4	l	l
10	8.80	1,750	2 a.m	9.42	2,220	1 a a m	9.20	9 100
12 p.m	8.62	1,620	5	9.30 9.59	2, 120 2, 350	2 a.m	9.20	2, 120 1, 980
Арт. 28		ļ	6	10. 47	3, 140	6	8.81	1,830
-			7	11.47	3, 950	12 m	8.43	1,550
6 a.m	8.21	1,330	8	12.57	5,010	4 p.m	8.22	1, 400
12 m 6 p.m	7. 93 7. 69	1,130 968	9	13.60	6,030	8	8.05	1, 280 1, 190
12 p.m	7.52	908 858	10 11 a.m	14. 23 14. 27	6, 910 6, 970	12 p.m	7.87	1, 190
P		550	6.1	12.21	5,010	1	Ì	1

26. RED RIVER AT FULTON, ARK.

Location.—Lat 33°37′, long 93°49′, in NE¼ sec. 20, T. 13 S., R. 26 W., near left bank on downstream side of bridge on U.S. Highway 67 at Fulton, 0.3 mile downstream from Missouri Pacific Railroad bridge, 2½ miles downstream from Little River, and at mile 463.0.

Drainage area.—52,380 sq mi of which 5,936 sq mi is probably noncontributing. Gage-height record.—Computed from twice daily wire-weight gage readings. Datum of gage is 224.94 ft above mean sea level, datum of 1929.

Discharge record.—Stage-discharge relation defined by current-meter measurements. Discharge computed from loop curves at times.

Maxima.—April-May 1958: Discharge, 214,000 cfs 10:30 a.m. May 6; maximum gage height, 29.47 ft May 6.

1927 to March 1958: Discharge, 338,000 cfs Feb. 24, 1938; gage height, 37.4 ft Apr. 2, 1945.

Remarks.—Some regulation by Lake Texoma, 261 miles upstream (capacity 5,530,300 acre-ft). Records furnished by Corps of Engineers.

Mean discharge, in cu	bic feet per second
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Day	April	Мау	Day	April	Мау	Day	April	Мау
1	26, 100 26, 100 24, 300 20, 600 19, 600 18, 800 16, 700 14, 900 11, 600	87, 400 110, 000 134, 000 173, 000 208, 000 214, 000 185, 000 128, 000 117, 000	11	12, 500 15, 200 16, 700 16, 400 16, 000 16, 400 16, 400 16, 700 16, 000 14, 200	104, 000 94, 000 88, 600 86, 000 72, 400 58, 400 45, 000 30, 300 21, 200 16, 600	21 22 23 24 25 26 27 27 28 29 30	13, 500 14, 200 18, 300 27, 300 30, 500 33, 900 43, 100 54, 700 62, 500 71, 100	14, 100 12, 500 11, 600 11, 200 10, 500 10, 300 11, 000 11, 200 10, 300 10, 300 9, 760
Monthly me	an dischar	ge			_thousand	ls of acre-feet	24, 130 1, 436	72, 890 4, 482

27. SOUTH SULPHUR RIVER NEAR COOPER, TEX.

Location.—Lat 33°21′, long 95°36′, on left bank of cut channel at downstream side of pile bent of bridge on State Highway 154, 0.6 mile downstream from Big Creek, 1.0 mile upstream from Brushy Creek, and 5.7 miles southeast of Cooper, Delta County.

Drainage area.—527 sq mi.

Gage-height record.—Water-stage recorder graph. Datum of gage is 374.91 ft above mean sea level, datum of 1929.

Discharge record.—Stage-discharge relation defined by current-meter measurements.

Maxima.—April-May 1958: Discharge, 17,400 cfs 4 p.m. May 1 (gage height, 20.93 ft).

1942 to March $1958\colon$ Discharge, $23{,}800$ cfs Apr. $29,\ 1953$ (gage height, $23.00\ {\rm ft})\,.$

Mean discharge, in cubic feet per second

Day	April	Мау	Day	April	Мау	Day	April	Мау
1	402 112 67 92 94 35 16 13 54 1,230	16, 500 13, 700 13, 600 13, 000 7, 540 4, 260 1, 890 485 160 84	11	1, 030 641 184 1, 470 1, 690 1, 080 252 104 61 53	58 41 31 23 20 19 17 12 9.8 9.4	21 22 23 24 25 26 27 27 28 29 30 31	58 562 1, 440 1, 180 239 1, 470 7, 680 9, 070 7, 150 10, 300	9. 4 8. 6 7. 2 6. 5 5. 6 5. 0 4. 4 8. 8 20 10
Monthly me Runoff Runoff		- 			_thousan	ls of acre-feetinches	1, 594 94. 87 3. 38	2, 308 141. 9 5. 05

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1958

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
Apr. 21			Apr. 26—Con.			May 3		
12 p.m	2.25	56	3 p.m	12. 93 14. 20	1, 550 1, 980	12 m 10 p.m	19. 87 20. 28	13, 900 15, 200
Apr. 22			12 p.m	15. 61	3, 240	12 p.m		15, 200
2 a.m	2.24 2.64	55 83	Apr. 27			May 4		,
8 10	4. 50 6. 70	213 378	6 a.m 6 p.m	17. 17 18. 47	6, 280 9, 700	12 m 12 p.m	19. 72 18. 74	13,300 10,300
2 p.m 12 p.m	9. 37 11. 59	767 1,220	12 p.m	18. 72	10, 300	May 5		
Apr. 23		·	Apr. 28			12 m	17. 62	7, 260
12 m		1,500	2 a.m 12 m	18. 73 18. 41	10,300 9,420	12 p.m	16. 82	5, 340
10 p.m 12 p.m		1,550 1,550	12 p.m	17. 47	7,000	May 6		
Apr. 24			Apr. 29			12 m 12 p.m	16. 24 15. 60	4, 230 3, 240
6 a.m 12 m	12.75 11.88	1, 520 1, 300	7 a.m	17.35 17.38 17.96	6, 760 6, 760 8, 300	May 7		
6 p.m 12 p.m	10.05	880 515	Apr. 30	11100	3,000	6 a.m 12 m	13.79	2,580 1,820
Apr. 25			12 m 12 p.m	18. 34 20. 08	9, 140 14, 600	6 p.m 12 p.m	11. 31 9. 19	1, 160 731
6 am 12 m	5. 70 4. 20	298 192	May 1	20.00	1 -2, 555	May 8		
9 p.m 12 p.m	3. 30 3. 30	129 129	12 m	20.84	17, 000	12 m 12 p.m	7. 40 5. 91	448 314
Apr. 26			4 p.m 12 p.m	20. 93 20. 78	17, 400 17, 000	May 9		1
2 a.m	4. 20 6. 72	192 378	May 2			6 a.m 12 m.	4. 14 3. 35	185 132
4 6	8.77 11.05	661 1, 090	12 m 12 p.m		13, 300 11, 200	12 p.m		101
12 m	12.74	1,500	12 p.m	10.00	11,200			

28. NORTH SULPHUR RIVER NEAR COOPER, TEX.

Location.—Lat 33°28′, long 95°35′, near center of channel at downstream side of bridge on State Highway 24, 4.9 miles upstream from Auds Creek, 7.3 miles upstream from Click Creek, and 8.6 miles northeast of Cooper, Delta County. Drainage area.—276 sq mi.

Gage-height record.—Water-stage recorder graph except Apr. 1-8, 11-13, May 3-31, for which graphs were drawn on basis of twice-daily wire-weight gage readings. Datum of gage is 381.42 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

Discharge record.—Stage-discharge relation defined by current-meter measurements below 30,000 cfs.

Maxima.—April-May 1958: Discharge, 39,500 cfs 4 a.m. May 2 (gage height, 22.35 ft).

1949 to March 1958: Discharge, 42,800 cfs Apr 29, 1953 (gage height, 25.86 ft).

Maximum stage since at least 1915, 26.6 ft May 2, 1944; flood in 1932 reached about same stage, from information by Corps of Engineers and local residents.

Mean discharge, in cubic feet per second

Day	April	Мау	Day	April	Мау	Day	April	Мау
1	62 52 48 43 52 39 25 22 322 757	5, 620 19, 100 8, 980 394 104 181 49 35 29 26	11	98 62 57 1,010 156 59 41 39 41 61	23 21 20 17 16 15 14 12 12	21	72 548 79 47 39 3, 370 3, 390 482 9, 370 8, 080	10 9.6 9.1 8.9 9.3 9.3 9.6 506 29 12 9.1
Runoff						ls of acre-feet inches	951 56. 57 3. 84	1, 139 70. 02 4. 76

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1958

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
Apr. 25			Apr. 29—Con.			May 2-Con.		
12 p.m	0.02	64	11 a.m	12. 95	16, 700	8 a.m	21. 15	36, 500
Apr. 26			12 m 1 p.m	14, 85 15, 50	20,800 22,300	9	18.00 13.10	28, 500 17, 000
1 a.m	2.15	640	3	14. 80 13. 40	20, 800 17, 600	11 12 m	10. 40 7. 80	11,000 6,730
2	4. 59	2,690	4	11.60	13,600	1 p.m	6.60	5,060
4	3. 62 3, 15	1,750 1,390	6 8	8, 75 6, 60	8, 260 5, 060	3	5. 00 6. 50	3, 110 4, 930
6	2.80	1,110	10	5. 58	3,800	4	12.95	16,700 23,000
8 12 m	2. 13 1. 61	628 368	11 12 p.m	5. 63 5. 13	3, 800 3, 220	8	15.80 14.00	19,000
4 p.m 5	1, 31 1, 58	277	Apr. 30	-1.22	,	11 12 p.m	11.50 11.90	13, 300 14, 200
6	3. 10	358 1, 350	Арт. зо			1 - 1	11.90	14, 200
7 8	7. 10 9. 60	5, 740 9, 560	3 a.m	3. 98 3. 43	2, 110 1, 630	May 8		
9	11.60	13,600	7	2.93	1,230	4 a.m	14, 85	20, 800
10 12 p.m	12. 33 11. 5 0	15, 100 13, 300	9	2.60 2.27	950 719	8	16.00 13.65	23, 500 18, 000
-	11.00	10,000	12 m	2.37	789	9	11. 20	12,600
Apr. 27			1 p.m	3. 05 8. 60	1, 3 10 7, 94 0	10	9. 00 7. 75	8, 580 6, 730
3 a.m	8, 85 6, 70	8, 260	3	11.60 14.90	13,600	12 m	6. 40 5. 30	4,800 3,440
8	5. 30	. 5, 190 3, 440	7	15.40	21,000 22,100	1 p.m 3	4.37	2,440
10 12 m	4, 23 3, 50	2,340 1,670	9	13. 70 10. 55	18, 300 11, 400	6 8	2, 91 2, 54	1,190 908
2 p.m	2. 95	1, 230	12 p.m	9.48	9, 380	12 p.m	1.98	538
4 10	2.56 1.97	922 532	May 1			May 4		
12 p.m	1.79	436				- '		001
Apr. 28			3 a.m	12.75 10.00	16, 200 10, 300	10 a.m 12 m	1.13 1.05	231 213
12 m	1 10	001	9	6.80	5, 320	2 p.m	2.05 2.30	580 740
5 p.m	1.13 1.00	231 202	10 12 m	6. 10 5. 03	4, 410 3, 110	8	1.49	329
7 9:30	1.66 1.26	386 264	3 p.m	4, 08 3, 26	2, 200 1, 470	12 p.m	.98	198
11	4. 25	2, 340	10	2. 75	1,070	May 5		
12 p.m	5.66	3, 920	12 p.m	2.47	859	6 a.m.	0, 50	119
Apr. 29			May 2			12 m	0.25	88
3 a.m	5, 35	3,560	1 a.m	2, 36	782	12 p.m	0.04	66
4	8.70	8,100	2	5.00	3, 110	May 6		
5 8	9. 24 6. 90	8,900 5,460	3 4	21.00 22,35	36, 000 39, 500	6 a.m	0.00	62
9 10 a.m	8. 25 10. 60	7, 330 11, 400	5	21.40 22.30	37,000			
10 a.m	10.00	11,400	7 a.m	44. 30	39, 200			

29. SULPHUR RIVER NEAR TALCO, TEX.

Location.—Lat 33°23'20", long 95°07'50", on right bank at downstream side of pier of bridge on U.S. Highway 271, about 150 ft downstream from Paris & Mt. Pleasant Railroad bridge, 2.4 miles northwest of Talco, Titus County, 3.0 miles downstream from Mustang Creek, and at mile 162.

Drainage area.—1,365 sq mi.

Gage-height record.—Water-stage recorder graph. Datum of gage is 290.82 ft above mean sea level, datum of 1929.

Discharge record.—Stage-discharge relation defined by current-meter measurements.

Maxima.—April-May 1958: Discharge, 50,600 cfs 8 p.m. May 3 (gage height. 25.69 ft).

1956 to March 1958: Discharge, 44,900 cfs Nov. 6, 1957 (gage height, 24.60 ft).

Maximum stage since at least 1908, about 27½ ft in 1908 and 1914, from information by local resident. Flood of 1945 reached a stage of about 26½ ft, from information by local resident.

Mean discharge, in cubic feet per second

					Jeer per			
Day	April	Мау	Day	April	Мау	Day	April	Мау
1	1, 380 785 340 230 200 250 170 120 100 896	33, 400 38, 500 47, 000 41, 400 26, 000 18, 800 13, 000 8, 420 4, 670 2, 600	11	1, 650 1, 200 844 1, 490 3, 960 3, 080 1, 740 623 320 250	1, 700 1, 340 1, 150 1, 020 899 690 525 450 380 170	21	240 421 767 1, 170 1, 170 2, 760 12, 600 15, 700 14, 600 25, 800	48 36 29 27 23 20 18 18 230 185
						ls of acre-feet inches	3, 162 188 .1 2 .58	7, 833 481 .6 6 .62

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1958

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
Apr. 21			Apr. 26			May 1		
12 p.m	3.81	280	5 a.m	13.80	1, 460	6 a.m	23.60	30, 500
Apr. 22			12 m 5 p.m	16. 15 18. 73	2, 120 3, 360	12 m 12 p.m	23.80 24.38	32, 700 39, 000
4 a.m	3.89	290	8 12 p.m	20. 23 21. 16	4,790 6,100	May 2		
12 m 2 p.m	3.77 4.95	280 370	Apr. 27	:	, í	5 a.m	24.39	39,000
4	6.50	525	i -			12 m	24.33	38,000
11 12 p.m	8,38 8,36	734 734	6 a.m 12 m	21.83 22.22	9, 770 13, 700	6 p.m 12 p.m	24. 29 24. 43	38, 000 39, 000
Apr. 23			12 p.m	22.48	17, 200	May 3		
8 a.m	7, 77	668	Apr. 28			-	25, 48	49,000
12 m	8.12	701	12 m	22.40	16, 100	12 m 8 p.m	25.69	50,600
12 p.m	10.63	976	12 p.m	22. 19	13, 400	12 p.m	25.64	49, 800
Apr. 24			Apr. 29			May 4		
12 m		1, 190	8 a.m	22. 10	12, 400	12 m	24. 73	42,000
12 p.m	13.07	1, 320	12 m 12 p.m	22.25 22.55	14, 100 18, 200	12 p.m	23. 69	31,600
Apr. 25			-		,	May 5		
2 a.m		1,320	Apr. 30			12 m	23. 13	25, 500
12 m 11:30 p.m		1, 220 932	12 m	23. 22 23. 58	26, 100 30, 500	12 p.m	22. 80	21, 300
12 p.m	10. 13	943	12 p.m		30, 500	1		

30. WHITEOAK CREEK NEAR TALCO, TEX.

Location.—Lat 33°19′, long 95°05′, near center of main channel on downstream side of bridge on U.S. Highway 271, 2 miles upstream from Ripley Creek. 2.7 miles south of Talco, Titus County, and 2.8 miles downstream from Lick Creek.

Drainage area.-494 sq mi.

Gage-height record.—Water-stage recorder graph. Datum of gage is 286.45 ft above mean sea level, datum of 1929 (Corps of Engineers bench mark).

Discharge record.—Stage-discharge relation defined by current-meter measurements.

Maxima.—April-May 1958: Discharge, 26,600 cfs 6 a.m. Apr. 28 (gage height, 19.52 ft).

1949 to March $1958\colon$ Discharge, $23{,}300$ cfs Feb. 3, 1950 (gage height $18.98\;\mathrm{ft}).$

Maximum stage since at least 1870, about 25.3 ft Mar. 31, 1945, from information by local residents.

Mean	discharge,	in	cubic	feet	per	second
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Day	April	Мау	Day	April	May	Day	April	Мау
1	996 1, 020 837 315 112 73 58 50 46 486	19, 200 16, 800 13, 900 12, 500 8, 240 4, 830 3, 250 2, 250 1, 190 354	11	781 868 555 614 1, 050 1, 350 1, 400 1, 190 604 177	124 83 64 54 46 40 36 33 32 39	21	106 100 100 136 267 1, 360 14, 500 23, 700 14, 500	34 28 24 22 21 20 18 18 17 17
Monthly me Runoff Runoff		~			_thousand	is of acre-feetinches	2, 678 159.4 6.05	2, 687 165 .2 6 .27

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1958

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
Apr. 23 12 p.m Apr. 24	5. 59	100	Apr. 26—Con. 12 p.m Apr. 27	16. 57	3, 740	Apr. 28—Con. 6 p.m 8 12 p.m	18. 99 18. 76 18. 65	21, 600 19, 200 18, 200
12 m	6. 00 7. 05 7. 83 8. 63	124 195 263 347	5 a.m	17. 43 17. 94 18. 25 18. 53 18. 67 18. 86 18. 96 19. 24 19. 34	7, 120 11, 400 14, 400 17, 300 18, 200 20, 200 21, 100 24, 100 24, 600	Apr. 29 3 a.m	18, 50 18, 38 18, 28 18, 20 18, 02	16, 800 15, 800 14, 900 13, 900 12, 000
3 a.m	14.61 15.48	455 581 736 886 1, 130 1, 560 2, 250 3, 340	Apr. 28 2 a.m	19. 53 19, 49 19. 52 19. 50 19. 45 19. 35	25, 600 26, 600 26, 600 26, 600 25, 600 25, 600	6 a.m		11, 600 11, 200 11, 600 13, 400 14, 900 16, 800

31. TEXARKANA RESERVOIR NEAR TEXARKANA, TEX.

Location.—Lat 33°18′16″, long 94°09′38″, in intake structure of Texarkana Dam on the Sulphur River on U.S. Highway 59, 10 miles southwest of Texarkana, Bowie County.

Drainage area.—3,443 sq mi.

Gage-height record.—Water-stage recorder graph. Datum of gage is at mean sea level, datum of 1941 (levels by Corps of Engineers).

Maxima.—April—May 1958: Contents, 1,651,000 acre-ft 8 a.m. May 12 (elevation, 249.82 ft). Outflow, 10,810 cfs 7 a.m. May 9.

1953 to March 1958: Contents, 1,700,000 acre-ft June 12, 1957 (elevation, 250.36 ft). Outflow, 25,700 cfs May 26, 1957.

Remarks.—Reservoir is formed by 18,500-ft earth-fill dam, a 200-ft uncontrolled concrete spillway, and a mile-long dike. Flood-control outlet works consist of the 20 feet six and a mile-long dike. concrete spillway, and a mile-long dike. Flood-control outlet works consist of two 20-foot diameter conduits controlled by four 10- by 20-foot electrically driven broome-type gates, invert elevation, 200.0 ft. Flow over spillway is discharged into an outlet channel and thence to the Sulphur River. Sulphur River was blocked and storage began July 2, 1953: first passage of water through conduits began July 18, 1953; gates closed and impoundment of water began June 27, 1956. Dam completed in December 1957. Reservoir built for flood control and conservation. Storage capacity by monthly allocation is reserved for the cities of Texarkana, Texas and Arkansas, and varies from 200 acre-ft in February to a maximum of 13,400 acre-ft in April. Data for dam and reservoir are shown in following table: Data for dam and reservoir are shown in following table:

	Elevation (feet)	Capacity (acre-ft)
Top of dam	,	(4676-36)
Top of damSpillway crest	250. 0	2, 654, 300
Top of conservation pool		
Streambed	180. 0	140, 000
Description of the control of the co		v

Cooperation.—Records furnished by Corps of Engineers.

Elevation, in feet, and contents, in acre-feet, at 7 a.m. of indicated day, 1958

	A	April		May		A	pril	M	ſay
Day	Ele- vation tents		Day	Ele- vation	Con- tents	Ele- vation	Con- tents		
1	222. 6 222. 7 222. 5 222. 4 222. 4	204, 500 207, 000 204, 800 200, 100 201, 600	233. 8 236. 6 239. 0 241. 6 243. 8	592, 300 736, 100 870, 100 1, 027, 000 1, 178, 000	16 17 18 19 20.	222. 6 222. 6 222. 5 222. 5 222. 5 222. 5	205, 300 204, 000 203, 000 202, 600 202, 300	249. 4 249. 2 249. 0 248. 8 248. 5	1, 614, 00 1, 599, 00 1, 581, 00 1, 560, 00 1, 540, 00
6 7 8 9 10	222, 6 222, 7 222, 8 222, 8 222, 8	204, 000 204, 800 208, 000 207, 500 207, 000	245. 8 247. 6 248. 6 249. 2 249. 6	1, 324, 000 1, 463, 000 1, 551, 000 1, 600, 000 1, 632, 000	21 22 23 24 25	222, 5 222, 6 222, 6 222, 6 222, 8	202, 100 203, 300 204, 000 204, 000 207, 000	248. 3 248. 1 247. 8 247. 6 247. 3	1, 520, 00 1, 503, 00 1, 483, 00 1, 464, 00 1, 444, 00
11 12 13 14 15	222. 3	203, 800 198, 400 195, 700 200, 800 204, 000	249. 7 249. 8 249. 8 249. 7 249. 6	1, 645, 000 1, 650, 000 1, 648, 000 1, 642, 000 1, 630, 000	26 27 28 29 30	223. 4 226. 0 228. 0 229. 4 230. 8	224, 900 302, 300 363, 400 415, 500 470, 500	247. 1 246. 8 246. 6 246. 4 246. 1 245. 9	1, 423, 00 1, 404, 00 1, 388, 00 1, 369, 00 1, 350, 00 1, 332, 00

Day April April May Day April Мау Day May 10, 300 10, 300 10, 300 10, 300 10, 300 10, 300 10, 300 9, 880 9, 880 4, 075 4, 075 9,880 9,880 2, 870 2, 870 2, 620 21 22 5, 110 9, 880 9, 880 4,075 6,015 10, 300 1,810 24 5, 200 4, 075 2, 670 1, 780 1, 780 2, 485 9, 880 9, 880 10, 300 10, 300 10, 810 15 , 915 25 3, 468 2, 720 4, 150 880 770 788 16. 2, 3, 26 10, 300 10, 300 10, 300 27 880 17__ 6, 300 18 397 880 19. 4. 310 10, 300 10, 300 4, 484 9, 880 9,460 20. 10, 300

Outflow, in cubic feet per second, at 7 a.m. of indicated day, 1958

32. POSTEN BAYOU NEAR WARDVIEW, LA.

[Stage Station]

Location.—Lat 33°00'25", Long 93°46'30", in NE¼NE¼ sec. 11, T. 23 N., R. 14 W., at bridge on parish road, 3 miles northeast of Wardview.

Gage-height record.—Water-stage recorder graph. Datum of gage is mean sea level (levels by Corps of Engineers).

Maxima.—April-May 1958: Elevation, 198.98 ft 10 a.m. May 1.

1956 to March 1958: Elevation, 196.70 ft Apr. 28, 1957.

Remarks.—Records furnished by Corps of Engineers.

Elevation, in feet, at 8 a.m. of indicated day 1958

Day	April	May	Day	April	May	Day	April	Мау
1	187. 0 186. 6 186. 4 186. 2 186. 1 186. 0 185. 9 185. 8 185, 8	198. 97 198. 87 198. 7 198. 7 198. 2 197. 7 197. 1 196. 3 195. 4 194. 7	11	185. 9 185. 9 185. 9 186. 0 186. 1 186. 2 186. 1 186. 0 185. 9	193. 7 192. 3 190. 5 188. 2 186. 9 186. 6 186. 4 186. 2 186. 3 187. 4	21	185. 9 185. 9 185. 9 185. 9 185. 9 193. 7 198. 2 198. 5 198. 6 198. 8	187. 1 186. 6 186. 2 186. 1 185. 9 186. 1 185. 8 185. 8 185. 8 185. 8

33. RED RIVER NEAR HOSSTON, LA.

Location.—Lat 32°53'35", long 93°49'20", in SW¼ sec. 16, T. 22 N., R. 14 W., in second pier from right abutment of bridge on State Highway 2, 1.8 miles downstream from Dry Bayou and 3.2 miles east of Hosston.

Drainage area.—57,041 sq mi, of which 5,936 sq mi above Denison Dam is noncontributing.

Gage-height record.—Water-stage recorder graph.

Discharge record.—Stage-discharge relation defined by current-meter measurements.

Maxima.—April-May 1958: Discharge, 214,000 cfs 5-6 p.m. May 7 (gage height, 27.89 ft).

Remarks.—Some regulation by Lake Texoma and Texarkana Reservoir. Station established Nov. 17, 1957.

Mean discharge, in cubic feet per second

Day	April	Мау	Day	April	Маў	Day	April	Мау
1	35, 200 33, 800 33, 900 31, 500 28, 900 25, 900 24, 500 24, 500 22, 100 19, 700	88, 400 105, 000 126, 000 149, 000 175, 000 197, 000 211, 000 209, 000 192, 000 168, 000	11	17, 500 17, 000 18, 500 20, 900 20, 900 20, 900 21, 000 22, 000 22, 100	144,000 126,000 116,000 110,000 105,000 90,600 78,000 52,600 43,800	21 22 23 24 25 26 27 27 28 29 30	25, 200 32, 200 43, 000 55, 900 63, 100 73, 000 80, 000	39, 000 36, 800 36, 000 34, 500 33, 000 31, 500 29, 400 20, 400 20, 400 25, 900
Runoff						ls of acre-feetinches	30. 520 1, 816 .60	93, 750 5, 765 1.89

34. CYPRESS CREEK NEAR PITTSBURG, TEX.

Location.—Lat 33°01'10'', long 94°52'40'', near center of stream at downstream side of pile bent of bridge on State Highway 11, 1.800 ft upstream from Louisiana and Arkansas Railway bridge, and 5.2 miles east of Pittsburg, Camp County.

Drainage area.—366 sq mi.

Gage-height record.—Water-stage recorder graph except May 5-18. Datum of gage is 247.49 ft above mean sea level. datum of 1929.

Discharge record.—Stage-discharge relation defined by current-meter measurements below 18,000 cfs. Discharge May 5-18 estimated on basis of weather records and records for Boggy Creek near Daingerfield.

Maxima.—April-May 1958: Discharge, 35,700 cfs 3:30 p.m. Apr. 27 (gage height, 24.80 ft).

1943 to March $1958\colon$ Discharge, $58{,}500$ cfs Mar. $30,\ 1945$ (gage height, 28.32 ft).

Maximum stage since at least 1895, that of Mar. 30, 1945; flood in January 1938 reached a stage of about 25 ft, from information by local resident.

Day	April	Мау	Day	April	Мау	Day	April	Мау
1	715 655 560 320 196 132 100 78 74 122	14, 200 7, 730 4, 840 5, 600 2, 500 1, 700 1, 300 1, 000 800 600	11	271 264 196 502 860 1,030 860 730 585 320	450 350 270 220 190 170 150 130 115	21	210 178 166 143 146 5, 470 31, 300 17, 900 4, 940 7, 710	97 91 86 84 78 74 66 58 54 54
Monthly me Runoff Runoff		•			thousand	ds of acre-feet inches_	2, 558 152.2 7.80	1, 394 85.71 4.39

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1958

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
Apr. 25			Apr. 27—Con.			Apr. 30—Con.		
12 p.m	8. 57	186	6 p.m 12 p.m	24, 73 23, 78	35, 300 31, 700	12 p.m	18. 15	12,000
Apr. 26			Apr. 28	20110	01,100	May 1		
1 a.m4	8. 81 10. 39	215 468	6 a.m	22. 05 21. 05	24, 500 20, 500	10 a.m 12 m 12 p.m	19. 73 19. 71 18. 24	16, 100 16, 100 12, 000
6 8 10	11. 20 12. 02 12. 58	670 1,030	12 m 5 p.m	19. 88 18. 08	16, 700 11, 800	May 2		
12 m 2 p.m	12. 98 13. 65	1, 450 1, 900 2, 940	12 p.m	16. 02	7,000	12 m 12 p.m.	16. 12 14. 58	7, 200 4, 520
4 69-	15. 50 17. 53 19. 38	6, 100 10, 200 15, 200	12 m	14. 51	4, 350	May 3		
12 p.m	20.94	20, 200	9 p.m 12 p.m	14. 33 14. 39	4, 100 4, 180	9 a.m 12 m 12 p.m	14.32 14.34 15.93	4, 010 4, 100 6, 820
Apr. 27			Apr. 30			May 4	10. 30	0,620
6 a.m	24. 75	28, 500 34, 900 35, 700 35, 700	1:30 a.m 2 4 12 m	14. 47 14. 61 15. 00 16. 16	4, 260 4, 520 5, 200 7, 400	1 a.m	15. 94 15. 34 14. 32	6, 820 5, 740 4, 010

35. BOGGY CREEK NEAR DAINGERFIELD, TEX.

Location.—Lat 33°02'05", long 94°47'10", on right bank at downstream side of bridge on State Highway 11, a quarter of a mile upstream from Louisiana and Arkansas Railway bridge, 3.8 miles west of Daingerfield, Morris County, and 9 miles upstream from mouth.

Drainage area.—72 sq mi.

Gage-height record.—Water-stage recorder graph. Datum of gage is 258.41 ft above mean sea level, datum of 1929.

Discharge record.—Stage-discharge relation defined by current-meter measurements below 13,000 cfs.

Maxima.—April-May 1958: Discharge, 28,900 cfs 3 a.m. Apr. 27 (gage height, 17.80 ft).

1943 to March 1958: Discharge, 15,900 cfs Mar. 30, 1945 (gage height, 15.56 ft).

Maximum stage know since 1900, that of Apr. 27, 1958; flood in January 1938 (maximum stage known since 1900 and before Apr. 27, 1958) reached a stage of about 17½ ft, from information by local residents.

Mean discharge, in cubic feet per second

Day	April	Мау	Day	April	Мау	Day	April	Мау
1	142 88 70 58 49 42 35 30 34 64	3, 640 895 1, 020 963 472 269 185 128 100 92	11	120 118 72 182 472 310 167 98 78 74	139 115 72 52 43 36 32 29 27 25	21	76 82 82 71 113 7, 560 18, 300 1, 660 1, 100 3, 350	23 21 18 16 15 14 12 22 18 17
Monthly me Runoff Runoff					_thousand	ls of acre-feet inches	1, 157 68. 82 17. 93	275 16. 91 4. 41

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1958

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
Apr. 23			Apr. 26-Con.			Apr. 30—Con.		
12 p.m	6.72	78	4 p.m	13.85 15.63	9,000 17,900	12 m 12 p.m	12. 08 12. 51	3, 600 4, 400
Apr. 24		ļ	12 p.m	17. 58	27, 900	May 1		
12 m 10 p.m	6. 54 6. 30	72 62	Apr. 27		90, 999	5 a.m 12 m	13. 02 12. 22	5, 750 3, 800
12 p.m Apr. 25	6.40	66	3 a.m 12 m 6 p.m	17. 80 16. 21 13. 96	28, 900 20, 900 9, 900	6 p.m 12 p.m	11. 35 10. 68	2, 160 1, 400
10 a.m	7. 19	100	9 12 p.m	12. 94 12. 07	5, 750 3, 800	May 2		
12 m 10 p.m	7. 36 7. 99	109 156	Apr. 28		,	10 a.m 12 m	10. 05 9. 95	870 810
12 p.m	8. 29	192	6 a.m 12 m	11.00 10.36	1, 960 1, 300	12 p.m	9. 60	600
Apr. 26		040	12 m	9.80	810	May 3	10.10	040
1 a.m 2 3	8. 58 8. 87 9. 25	240 311 460	Apr. 29			6 a.m 12 m 12 p.m	10. 16 10. 37 10. 43	948 1, 100 1, 180
8 10	9. 95 10. 55	810 1, 260	12 m 12 p.m	10. 20 10. 77	1,060 1,450	May 4	10. 10	1,100
12 m 1 p.m	11.50	1, 840 2, 400	Apr. 30		,	3 a.m	10.48	1,220
2 3 p.m	12. 04 13. 12	3, 400 6, 100	4 a.m	11.53	2, 500	12 m 12 p.m	10. 19 9. 66	972 636

36. LAKE O' THE PINES NEAR JEFFERSON, TEX.

Location.—Lat 32°45′, long 94°30′, in control structure of Ferrell's Bridge Dam on Cypress Creek, on Farm Road 726, 9.0 miles west of Jefferson, Marion County.

Drainage area.—850 sq mi.

Gage-height record.—Water-stage recorder graph. Datum of gage is mean sea level, datum of 1929, supplemental adjustment of 1941.

Maxima.—April-May 1958: Contents, 515,800 acre-ft 7 a.m. May 7 (elevation, 239.71 ft).

1957 to March 1958: Contents, 117,900 acre-ft Nov. 19, 1957.

Remarks.—Reservoir is formed by a 10,600-ft rolled earth-fill dam and a 200-ft concrete spillway. Flood-control outlet works consist of two 10-foot diameter conduits controlled by two 8.0- by 12.5-foot electrically driven broometype gates, invert elevation 200.00 ft. Low-flow outlet works consist of one 14-inch pipe and valve, invert elevation, 202.5 ft. Flow over spillway is discharged into a 2,000-foot channel and thence into Cypress Creek. Coffer dam closure was made Aug. 21, 1957; water began flowing through conduits Sept. 25, 1957. Dam completed in December 1957. Reservoir built for flood control, conservation, and water supply. A total of 250,000 acre-ft of storage capacity is allocated to the Northeast Texas Municipal Water District for domestic and industrial use.

Data regarding the dam and reservoir are shown in the following table:

	Elevation (feet)	Capacity (acre-ft)
Spillway crest	249.5	842, 100
Top of conservation pool	228.5	254,900
Flood-control outlet works (inverts at intake)	200.0	2, 860

Releases from reservoir during flood period are shown in record for station Cypress Creek near Jefferson.

Cooperation.—Records furnished by Corps of Engineers.

Elevation, in feet, and contents, in acre-feet, at 7 a.m. of indicated day, 1958

	A	pril	1	May		A	pril	M	ſay
Day	Eleva- tion	Contents	Eleva- tion	Contents	Day	Eleva- tion	Contents	Eleva- tion	Contents
1	208.6	24, 460	234. 2	372, 700	18	207.6	20,080	238. 7	486, 500
2	208.6	24, 700	236.0	416, 500	19	207. 7	20, 500	238. 3	477, 200
3	208.6	24, 700	237. 9	465, 900	20	207. 9	21, 740	238.0	468, 800
4	208.6	24, 700	238.8	490, 400					
5	208.6	24, 700	239. 4	505, 700	21	208.1	22, 270	237. 8	464, 600
_			_		22	208.3	23, 240	237.6	459, 400
6		24,600	239. 7	514, 100	23	208.4	23, 730	237.4	453, 400
7		24, 460	239.7	515, 800	24	208.4	23, 970	237. 2	447, 700
8	208.4	23, 730	239.6	513, 600	25	208.4	23, 830	237.0	442, 200
9		23, 050	239.6	511, 300	1			202 =	405 500
10	208. 2	22,710	239. 5	509, 100	26	209.0	26, 650	236. 7	435, 700
	00# 0	24 400			27		42, 340	236. 5	429, 200
11 12	207. 9	21, 480	239. 3	505, 400	28		101, 600	236. 2	422, 800
12	207.7	20, 500	239.3	504,000	29		230, 900	236.1	420, 200
13 14	207. 5	19, 700	239. 3	504,000	30		324, 800	235. 9 235. 6	413, 700
15	207. 5	19, 530	239.3	504,000	31			230.0	404, 700
10	207. 5	19, 530	239. 3	503, 400	Change in				
16	207. 5	19, 660	239. 2	500, 600	contents.				l
17	207.5	19,660	239. 2 239. 0		acre-feet		+299, 370		+79,900
1/	201.0	19,000	209. U	494, 800	ac16-1661		T 400, 010		1 , 0, 000

37. CYPRESS CREEK NEAR JEFFERSON, TEX.

Location.—Lat 32°45′, long 94°29′, on downstream side of bridge, 1,500 ft downstream from Ferrell's Bridge Dam, 8 miles west of Jefferson, Marion County, and 14 miles upstream from Black Cypress Creek.

Drainage area.—850 sq mi (above Ferrell's Bridge Dam).

Gage-height record.—Water-stage recorder graph. Datum of gage is at mean sea level, datum of 1929 (levels by Corps of Engineers).

Discharge record.—Stage-discharge relation defined by current-meter measurements.

Maxima.—April-May 1958: Discharge, 5,190 cfs 3 p.m. Apr. 29 (elevation, 201.30 ft).

1924 to March 1958: Discharge, 57,100 cfs Apr. 1, 1945 (elevation, 212.48 ft, at site 1,500 ft upstream).

Flood of Apr. 1, 1945, was greatest since at least 1853. Floods of May 1884 and July 1904 reached elevations of about 208 and 209 ft, respectively, at site 1,500 ft upstream, from information by local residents.

Remarks.—Flow regulated by Ferrell's Bridge Dam, 1,500 ft upstream.

Cooperation.—Records furnished by Corps of Engineers.

Mean discharge, in cubic feet per second

2	3, 240 11	1, 080 1, 030 985 943	3, 130 2, 110 1, 270 964	21 22 23	964 1, 030 1, 080	3, 67 3, 13 2, 96
7 1,160 3,	16	964 922 901 820	880 1, 210 2, 560 3, 810	24 25 26 27	1, 100 1, 100 1, 160 1, 700 2, 270	2, 96 2, 96 3, 24 3, 35 3, 35
) 1, 100 3,	13. 130 19	880 922	4, 360 4, 500	29 30 31	3, 950 3, 950	3, 4, 3, 3, 3, 3,

38. CADDO LAKE NEAR MOORINGSPORT, LA.

Location.—Lat 32°42′15″, long 93°55′11″, in SE¼SE¼ sec. 21, T. 20 N., R. 15 W., at south end of dam on Cypress Creek, 0.3 mile upstream from confluence with Black Bayou and 3 miles northeast of Mooringsport.

Drainage area.-2,744 sq mi.

Gage-height record.—Water-stage recorder graph. Datum of gage is mean sea level (levels by Corps of Engineers).

Maxima.—April-May 1958: Contents, 783,300 acre-ft May 5 (elevation, 182.59 ft); 1921 to March 1958: Contents observed, 745,500 acre-ft Apr. 5, 1945 (elevation, 181.8 ft).

Remarks.—Records furnished by Corps of Engineers. Lake is formed by concrete gravity and earth dam. An uncontrolled concrete spillway is at elevation 168.40 ft (capacity, 170,000 acre-ft). At flood stages the dam is submerged.

777	C	. 7			. 6 2 . 12	1050
Lievation	. гп теег	. ana contents	i. in acre-teel	. $at \ \delta \ a.m$.	of indicated day.	. 1908

	A	.p ril	1	Мау		A	pril	N	I ay
Day	Eleva- tion	Contents	Eleva- tion	Contents	Day	Eleva- tion	Contents	Eleva- tion	Contents
1. 2. 3. 4. 5	169. 3 169. 1 169. 1 169. 2 169. 4 169. 3 169. 2 169. 2 169. 3	206, 500 206, 100 205, 800 204, 700 204, 000 201, 600 196, 600 199, 100 204, 400 202, 300 200, 100 200, 100 200, 100 200, 100 200, 100 200, 100 200, 100	179. 3 180. 8 181. 8 182. 4 182. 59 182. 5 182. 2 180. 7 180. 7 180. 4 178. 8 178. 1 177. 4 176. 7 176. 7	619, 800 692, 800 740, 400 774, 300 783, 300 764, 800 743, 000 687, 400 656, 800 625, 500 594, 200 562, 000 532, 000	19	169. 2 169. 2 169. 2 169. 2 169. 9 171. 2 172. 7 174. 8 177. 2	198, 700 198, 700 198, 400 198, 700 198, 700 198, 700 198, 700 200, 100 223, 700 270, 300 329, 500 415, 400 519, 800	174. 9 174. 4 173. 9 173. 4 172. 9 172. 5 172. 0 171. 6 171. 2 170. 8 170. 4 170. 2	422, 500 400, 600 378, 500 359, 600 321, 600 302, 800 271, 500 256, 700 244, 000 234, 300 228, 400

39. KELLY BAYOU NEAR HOSSTON, LA.

Location.—Lat 32°51′25″, long 93°52′20″, in SW¼NE¼ sec. 36, T. 22 N., R. 15 W., near center of span on downstream side of bridge on U.S. Highway 71, 0.4 mile downstream from Willow Lake lateral, 2.0 miles south of Hosston, and 2.7 miles upstream from mouth.

Drainage area.-116 sq mi.

Gage-height record.—Water-stage recorder graph. Datum of gage is 165.53 ft above mean sea level, datum of 1929, supplementary adjustment of 1941.

Discharge record.—Slope-stage-discharge relation defined by current-meter measurements. Discharge computed by using fall as determined from auxiliary recorder. Stage-discharge relation indefinite May 16-31; discharge estimated on basis of records for nearby stations.

Maxima.—April-May 1958: Discharge, 4,460 cfs 5 a.m. Apr. 28; gage height, 22.72 ft 4 a.m. Apr. 29.

1944 to March 1958: Discharge, 1,800 cfs Mar. 3, 1945; gage height, 17.23 ft Apr. 29, 1957.

Mean	discharge,	in	cubic	feet	per	second
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Day	April	Мау	Day	April	Мау	Day	April	May
1	109 89 80 74 70 62 54 46 44 54	3, 600 3, 200 2, 880 2, 510 2, 130 1, 770 1, 210 774 488 546	11	70 64 52 58 94 94 70 56 50	331 178 118 84 42 35 25 30 40 60	21	72 64 52 44 70 1, 910 3, 530 4, 330 4, 130 3, 910	40 30 25 20 20 20 20 20 20 20 20 20 20 20
Monthly me	an dischar	ge			thousand	ls of acre-feet	649 38. 61	655 40. 29

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1958

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
Apr. 24			Apr. 26-Con.			Apr. 27—Con.		
12 p.m	3. 67 3. 97 4. 09 3. 80 3. 54	40 71 83 88 76 66 60	9 a.m	16. 53 16. 44 16. 37 16. 29 16. 21 16. 27 16. 76 17. 17	2, 480 2, 520 2, 510 2, 380 2, 290 2, 210 2, 120 2, 120 2, 300 2, 470 2, 540	2 p.m	20. 05 20. 74 21. 05 21. 32 21. 83 21. 93	3, 560 3, 750 4, 090 4, 220 4, 330 4, 450 4, 460 4, 430
11	4. 02 4. 42	85 105 89 100	8	17. 52 17. 59 17. 76 17. 99	2, 570 2, 590 2, 660 2, 760 2, 900	8	22. 18 22. 39 22. 57	4, 430 4, 320 4, 240 4, 210
3	8. 27 11. 47	140 420 1,020 1,630 2,060 2,360	2 a.m	19.17	3, 010 3, 090 3, 210 3, 290 3, 420	4 a.m 8	22.61 22.49	4, 210 4, 170 4, 130 4, 060 4, 020

40. BLACK BAYOU NEAR GILLIAM, LA.

Location.—Lat 32°48′55′′, long 93°52′15′′, in SE¼NW¼ sec. 13, T. 21 N., R. 15 W., near left bank on downstream side of bridge on State Highway 170, 0.2 mile downstream from Red Bayou and 2 miles southwest of Gilliam.

Drainage area.—364 sq mi.

Gage-height record.—Water-stage recorder graph. Datum of gage is 155.59 ft above mean sea level, datum of 1929, supplementary adjustment of 1941.

Discharge record.—Slope-stage-discharge relation defined by current-meter measurements. Discharge computed by using fall as determined from auxiliary recorder as a factor. Stage-discharge relation indefinite May 8-31; discharge estimated on basis of records for nearby stations.

Maxima.—April-May 1958: Discharge, 17,700 cfs 4-10 a.m. Apr. 29 (gage height, 27.51 ft).

1942 to March 1958: Discharge, 8,200 cfs Apr. 29, 1957; gage height, 25.73 ft Apr. 5, 1945.

Mean discharge, in cubic feet per second

Day	April	May	Day	April	Мау	Day	April	May
1	602 575 549 530 496 458 373 320 289 316	14, 600 13, 100 12, 600 10, 600 6, 280 5, 310 2, 950 2, 000	11	319 296 274 316 354 371 333 324 322 354	} 400 } 100	21	379 367 347 320 390 3,540 8, 110 15, 100 17, 500 16, 600	100
Monthly me Runoff Runoff		-			thousand	ls of acre-feet inches_	2, 347 139. 7 7. 20	2, 421 148. 8 7. 67

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1958

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
Apr. 24			Apr. 26—Con.			Apr. 27—Con.		
12 p.m	6. 33	298	2 p.m	18. 33 18. 62	4, 370 4, 700	10 p.m	23. 10 23. 33	10, 200 10, 500
Apr. 25			4 5	18, 85	4, 880 5, 180	12 p.m		10, 900
2 a.m	6.30 6.34	285 298	6	19.58	5, 490 5, 740	Apr. 28		ĺ
4 5	6. 44 6. 64	328 395	8	20. 05 20. 16	5, 950 6, 060	1 a.m	24. 33	11, 2 00 12, 2 00
6 8	7.02	454 475	10 12 p.m	20. 25 20. 51	6, 150 6, 410	6	24. 58 25. 14	12, 600 13, 500
10 12 m 4 p.m	7.11	461 437 393	Apr. 27			10 12 m	26. 3 8	15, 100 15, 700 16, 200
10 11	7.03	369 295	1 a.m 3	20. 64 20. 86	6, 570 6, 830	2 p.m 6 12 p.m	27.06	16, 200 16, 900 17, 400
12 p.m	7. 21	376	4	20.95	6, 940 7, 030	Apr. 29	21.00	1,, 100
Apr. 26			6 7	21.16	7, 150 7, 240	4 a.m		17, 700
1 a.m	7. 67	420 468	8	21.37	7, 340 7, 560	10 12 m	27, 47	17,700 17,600
4 5 6	10.48	797 1, 450 1, 990	11 12 m 1 p.m	21.53	7, 660 7, 800 7, 930	6 p.m 12 p.m	27. 38 27. 14	17, 500 17, 100
78	13.70	2, 190 2, 400	2	21.73	8, 100 8, 280	Apr. 30		
9 10	15. 68 16. 40	2, 680 2, 970	5	22. 11 22. 28	8, 660 8, 920	6 a.m 12 m	26.85	16, 900 16, 500
11 12 m	17.50	3, 280 3, 600	7 8	22, 71	9, 250 9, 560	6 p.m 12 p.m	26. 75	16, 400 16, 400
1 p.m	17. 96	4,060	9 p.m	22. 90	9, 850			

41. TWELVEMILE BAYOU NEAR DIXIE, LA.

Location.—Lat 32°38'45", long 93°52'40", in NW¼NW¼ sec. 14, T. 19 N., R. 15 W., near right bank on downstream side of pier of bridge on State Highway 173, 0.1 mile downstream from Cottonwood Bayou, 4.2 miles southwest of Dixie, 5.5 miles downstream from Caddo Lake, and 17.3 miles upstream from mouth.

Drainage area.—3,137 sq mi.

Gage-height record.—Water-stage recorder graph. Datum of gage is 143.88 ft above mean sea level, datum of 1929, supplementary adjustment of 1941.

Discharge record.—Stage-discharge relation defined by current-meter measurements. Discharge Apr. 25-May 17 computed by using submergence as determined from auxiliary gage as a factor.

Maxima.—April-May 1958: Discharge, 38,400 cfs 6 a.m. May 5; gage height, 35.65 ft 6 p.m. May 5.

1942 to March 1958: Discharge, 34,900 cfs Apr. 5, 1945 (gage height, 35.65 ft).

Mean discharge, in cubic feet per second

Day	April	Мау	Day	April	Мау	Day	April	Мау
1	4, 400 4, 300 4, 350 4, 100 4, 150 4, 050 3, 510 3, 000 3, 040 3, 510	29, 800 33, 400 36, 200 37, 900 38, 300 37, 700 36, 700 36, 300 34, 000 32, 500	11	3, 380 3, 080 3, 000 3, 160 3, 280 3, 160 3, 080 3, 040 3, 040 3, 080	31, 000 29, 700 28, 200 26, 900 25, 300 23, 700 20, 600 19, 000 17, 600	21	3,000 2,960 2,920 2,960 3,080 6,860 10,800 13,400 17,700 24,000	16, 500 15, 300 14, 200 13, 300 12, 600 11, 300 10, 500 9, 860 9, 010 8, 150
Monthly me Runoff Runoff	an dischar	ge			thousan	ds of acre-feet inches_	5, 245 312. 1 1. 86	23, 500 1, 445 8. 64

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1958

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
Apr. 24			Apr. 27			May 1—Con.		
12 p.m	10.00	2,840	6 a.m	22.98	10, 200	12 m	32.04	28,900
Apr. 25			12 m 6 p.m 12 p.m	23. 48 24. 13 24. 60	10, 800 11, 600 12, 100	6 p.m 12 p.m	32. 74 33. 08	30, 900 31, 800
12 m 10 p.m	10.58 11.02	3, 070 3, 250	Apr. 28			May 2		
12 p.m		3,520	6 a.m 12 m	25. 01 25. 47	12, 600 13, 200	12 m 12 p.m	33. 63 34. 15	33, 400 34, 800
Apr. 26			6 p.m 12 a.m	25. 93 26. 45	14, 100 15, 100	May 3		
1 a.m 2	12.01 12.26	3, 700 3, 830	Apr. 29			12 m	34.70	36, 400
3		4,200	21.01.20		ļ	12 p.m	35. 10	37, 400
5		4,960	6 a.m	27. 12	16, 200	-		
6 7	15.42 16.28	5,410 5,840	12 m 6 p.m	27.71 28.35	17,600	May 4		
8	16. 20	6,200	12 p.m.	29.08	19, 100 20, 800	40		
10	18. 16	6,800	· ·	20.00	20,000	12 m	35.36 35.53	38, 000 38, 300
11	18.60	7,060	Apr. 30	Ì		12 p.m	30.03	90, 900
12 m		7,260				May 5		
1 p.m	19.23 19.42	7,440 7,550	6 a.m 12 m	29. 72 30. 40	22,500	Natayo		
3		7,670	6 p.m	30.98	24, 300 25, 900	4 a.m.	35, 58	38, 300
4		8,020	12 p.m	31.55	27, 500	5	35, 59	38, 400
5	20.58	8,250	_			6	35.60	38, 400
9		8, 930	May 1		1	12 m	35.61	38,300
10	21.84	9,090		20.25	00.000	6 p.m	35.65	38, 300 38, 000
12 p.m	22.21	9,370	6 a.m	32.35	29,800	12 p.m	35.60	30,000

42. PAW PAW BAYOU NEAR GREENWOOD, LA.

Location.—Lat 32°31'00", long 93°58'20", in SE¼ sec. 26, T. 18 N., R. 16 W., near center of span on downstream side of bridge on State Highway 169, 1 mile upstream from Cross Lake, 5.1 miles north of Greenwood, and 11 miles west of Shreveport.

Drainage area.—78 sq mi.

Gage-height record.—Water-stage recorder graph. Datum of gage is 170.35 ft above mean sea level (Louisiana Geodetic Survey bench mark).

Discharge record.—Stage-discharge relation defined by current-meter measurements below 2,000 cfs.

Maxima.—April-May 1958: Discharge, 7,310 cfs 5:30 a.m. Apr. 27 (gage height, 13.84 ft).

1955 to March 1958: Discharge, 3,750 cfs Apr. 28, 1957 (gage height, 11.24 ft).

Mean discharge, in cubic feet per second

Day	April	Мау	Day	April	Мау	Day	April	Мау
1	62 40 30 25 21 17 14 11 9.8	1, 540 1, 190 855 1, 400 874 345 74 38 27 30	11	40 22 15 71 170 75 32 20 16	29 21 16 14 12 11 8.8 7.7 8.4	21	13 11 9.2 7.7 6.8 641 4,800 1,620 908 732	16 11 7.7 5.6 4.4 3.4 2.8 2.6 2.6 2.6 2.8
T)						ls of acre-feet inches	316 18. 79 4. 52	212 13. 04 3. 14

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1958

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
Apr. 25			Apr. 27—Con.			May 2-Con.		
12 p.m	2. 01	9. 4	9 p.m 12 p.m	10. 65 10. 37	2, 400 2, 080	6 p.m 12 p.m	9. 18 8. 94	966 820
Apr. 26			Apr. 28			May 3		
3 a.m	3. 16 3. 85	13 26 35 56 88	6 a.m	10. 06 9. 86 9. 84 9. 49	1,760 1,560 1,540 1,200	6 a.m	8, 80 8, 91 9, 15 9, 26	750 805 945 1, 02 0
12 m 1 p.m	5. 50 6. 13	127 170	Apr. 29			May 4		
2	6. 80 7. 03 7. 30	204 230 253 280 435	6 a.m	9. 21 9. 00 8. 93 8. 82	987 850 815 760	6 a.m. 12 m. 6 p.m. 12 p.m.	9. 80 9. 82 9. 74 9. 52	1, 500 1, 520 1, 440 1, 230
7 8	8.87	785 1, 270	Apr. 30			May 5		ļ
9 10 11 12 p.m	11. 23 11. 85	2, 110 3, 060 3, 820 4, 630	6 a.m	8. 70 8. 63 8. 68 9. 18	700 672 692 966	6 a.m 12 m 6 p.m 12 p.m	9. 25 9. 00 8. 73 8. 42	1, 020 850 715 588
Apr. 27			May 1			May 6		
1 a.m	13. 39 13. 64 13. 78 13. 83	5, 530 6, 410 6, 910 7, 190 7, 290 7, 310	4 a.m	9. 62 9. 63 9. 94 9. 95 10. 12 10. 13	1, 320 1, 330 1, 640 1, 650 1, 820 1, 830	6 a.m	8. 06 7. 57 6. 68 5. 59	468 334 218 132
6	13. 83 13. 78 13. 64 13. 45 12. 65	7, 290 7, 190 6, 910 6, 530 5, 040 3, 730	10	9. 87 9. 88 9. 74	1, 570 1, 580	6 a.m 12 m 6 p.m 12 p.m	4. 65 4. 14 3. 83 3. 60	86 66 55 48
6 p.m		2, 860	6 a.m 12 m	9. 45	1, 170			

43. RED RIVER AT SHREVEPORT, LA.

- Location.—Lat 32°30'55", long 93°44'25", in SE14SE14 sec. 30, T. 18 N., R. 13 W., on second pier from east bank, at Illinois Central Railroad bridge at Shreveport, half a mile downstream from Cross Bayou.
- Drainage area.—60,613 sq mi, of which 5,936 sq mi above Denison Dam is non-contributing.
- Gage-height record.—Graph based on once-daily telemark readings. Datum of gage is 131.48 ft above mean sea level, datum of 1929, supplementary adjustment of 1931 (levels by Corps of Engineers).
- Discharge record.—Stage-discharge relation defined by current-meter measurements.
- Maxima.—April—May 1958: Discharge, 249,000 cfs May 8 (gage height, 33.70 ft).

 1928 to March 1958: Discharge, 303,000 cfs Apr. 5, 1945; gage height, 37.9 ft in gage well, 38.4 ft from outside gage Apr. 7, 1945.

 Maximum stage known, 45.9 ft in August 1849.
- Remarks.—Some regulation by Lake Texoma and Texarkana Reservoir. Most discharge measurements and computations of records furnished by Corps of Engineers; occasional discharge measurements made and records reviewed by Geological Survey.

Day	April	Мау	Day	April	Мау	Day	April	Мау
5	42, 200 38, 400 37, 600 37, 600 34, 200 30, 700 29, 600 27, 900 26, 800 24, 200	125, 000 142, 000 168, 000 194, 000 218, 000 234, 000 245, 000 249, 000 229, 000 208, 000	11	21, 500 20, 400 20, 700 23, 300 24, 200 24, 200 24, 200 24, 200 24, 200 24, 200 24, 200	182,000 157,000 143,000 134,000 131,000 125,000 112,000 94,500 77,400 63,300	21	24, 200 22, 400 21, 500 22, 400 28, 500 34, 800 56, 300 88, 600 102, 000 114, 000	54, 600 48, 200 44, 200 41, 100 39, 200 37, 300 36, 300 35, 000 34, 100 31, 800

Mean discharge, in cubic feet per second

44. BAYOU DORCHEAT NEAR SPRINGHILL, LA.

Location.—Lat 32°59'40'', long 93°23'45'', in NE¼NE¼ sec. 16, T. 23 N., R. 10 W., near left bank on downstream side of bridge on State Highway 157, 0.4 mile downstream from Crooked Creek, 1.7 miles downstream from Arkansas-Louisiana State line, and 4 miles southeast of Springhill.

Drainage area.—605 sq mi.

Gage-height record.—Water-stage recorder graph. Datum of gage is 173.91 ft above mean sea level, datum of 1929, supplementary adjustment of 1941.

Discharge record.—Stage-discharge relation defined by current-meter measurements.

Maxima.—April-May 1958: Discharge, 36,400 cfs 4 p.m. Apr. 28 (gage height, 22.79 ft).

October 1957 to March 1958: Discharge, 3,270 cfs Nov, 21, 1957 (gage height, 13.71 ft).

Mean a	lischarge.	in	cubic	feet	per	second
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Day	April	Мау	Day	April	May	Day	April	Мау
1	1, 460 1, 280 1, 140 1, 030 915 798 670 558 469 390	22, 400 18, 600 14, 600 11, 400 8, 620 5, 960 4, 240 3, 240 2, 520 1, 970	11	335 272 242 258 279 283 308 362 419 448	1, 600 1, 380 1, 280 1, 220 1, 130 983 815 634 558 530	21	438 406 368 328 523 3, 400 18, 700 35, 000 32, 500 26, 200	482 534 715 912 995 908 735 514 341 242 223
Monthly me Runoff Runoff					thousand	ls of acre-feetinches.	4, 326 257. 4 7. 98	3, 557 218. 7 6. 78

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1958

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
Apr. 24			Apr. 26—Con.			Apr. 28-Con.		
12 p.m Apr. 25	8. 20	307	2 p.m	14. 48 14. 65	4, 340 4, 750 5, 140 5, 590	12 p.m Apr. 29	22. 60	35, 300
2 a.m 6	8. 61 8. 91 9. 31	304 367 414 484 544	10	15. 16	6, 210 7, 690	6 a.m 12 m 6 p.m 12 p.m	21.78	34, 200 32, 800 31, 100 28, 800
2 p.m	9. 87 10. 08 10. 21 10. 29 10. 34	596 643 674 694 706 715	4 a.m 8	17. 80 18. 94 20. 00	10, 900 14, 300 18, 300 22, 600 27, 100 30, 800	Apr. 30 12 m 12 p.m May 1	20. 72 20. 33	25, 900 24, 100
Apr. 26	10. 43	728 822	Apr. 28	22. 22	33, 300 35, 200	12 m 12 p.m May 2	19. 95 19. 53	22, 400 20, 600
6 8 10 12 m	12.46 13.40	1, 030 1, 520 2, 780 3, 740	12 m 4 p.m 8 p.m	22.79	36, 200 36, 400 36, 100	12 m 12 p,m	19. 03 18. 44	18, 600 16, 400

45. FLAT LICK BAYOU NEAR LETON, LA.

Location.—Lat 32°46′10″, long 93°16′00″, in NW¼ sec. 35, T. 21 N., R. 9 W., near left bank on downstream side of bridge on State Highway 159, half a mile downstream from Cypress Creek, 6 miles upstream from mouth, and 6½ miles south of Leton.

Drainage area.—66.9 sq mi.

Gage-height record.—Water-stage recorder graph. Datum of gage is 183.79 ft above mean sea level, datum of 1929, supplementary adjustment of 1941.

Discharge record.—Stage-discharge relation defined by current-meter measurements below 3,300 cfs and extended to peak stage by velocity-area studies.

Maxima.—April-May 1958: Discharge, 10,200 cfs 2 p.m. Apr. 26 (gage height, 12.95 ft).

1956 to March 1958: Discharge, 2,340 cfs Apr. 27. 1957 (gage height, 9.92 ft).

Mean discharge, in cubic f	feet po	er second
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Day	April	Мау	Day	April	Мау	Day	April	Мау
1	84 70 62 55 50 43 38 35 36 46	2, 480 831 499 457 375 271 164 107 82 212	11 12 13 14 15 15 16 17 17 18 19 20 20 1	45 39 34 61 79 60 45 37 36 41	229 115 67 54 48 42 38 40 1,030 1,400	21 22 23 24 25 26 27 27 28 29 30	42 36 30 25 283 7, 250 3, 570 2, 120 926 2, 850	465 263 116 74 59 50 44 37 34 31
Monthly me Runoff Runoff					thousand	ls of acre-feet inches	604 35, 96 10. 08	314 19. 32 5. 41

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1958

Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
		Apr. 27-Con.			May 1-Con.		
3.42	23	8 a.m	10.57	3, 850	12 p.m	9. 26	1, 360
		4 p.m	9.74	2, 130	May 2		
3.41	23	12 p.m		2, 950	12 m	8. 79 8. 47	731 503
7. 54	311	A pr. 28				0. 11	
8. 47	503	2 a.m	10.27	3, 160 2, 080	· .	3.80	36
0.71	000		9.01	1,000	12 p.m	4. 23	53
0.00	1 000	Apr. 29			May 19		
10,00	2,600	12 m	8.83	773	4 a.m	6. 32 8. 56	185 548
12.62	9, 310	· -	9. 12	1, 100	12 m	9. 25	1, 340 1, 380
12.92	10, 100	· .	0.05	1 000	8	9. 36	1, 510 2, 340
12.89	10, 100	8	10.00	2,600	_	8.00	2, 040
12. 15	7, 990	6 p.m	10.08	2, 760] -		0.450
11. 79 11. 67	6, 980 6, 650	-	10, 60	3, 920	12 m	9. 19	2, 450 1, 260
		_			6 p.m 12 p.m	8. 89 8. 64	839 602
11. 23	5, 480	12 m	9. 85	2, 320			
	3. 42 3. 41 4. 46 7. 54 8. 34 8. 71 9. 02 10. 00 11. 47 12. 62 12. 72 12. 92 12. 95 12. 60 12. 15 11. 79 11. 67	3. 42 23 3. 41 23 4. 46 62 7. 54 311 8. 34 457 8. 47 503 8. 71 659 9. 02 1, 020 10. 00 2, 600 11. 47 6, 110 12. 62 9, 310 12. 77 9, 780 112. 95 10, 100 12. 80 9, 250 12. 95 10, 100 12. 80 9, 250 12. 17, 99 11. 79 6, 980 11. 67 6, 680	Apr. 27—Con.	height	Apr. 27 - Con. 3. 42 23 8 a.m. 10. 157 3, 850	Apr. 27—Con. Apr. 27—Con. Apr. 27—Con.	height

46. BAYOU DORCHEAT NEAR MINDEN, LA.

Location.—Lat 32°35′55′′, long 93°20′00′′, in NW¼ sec. 31, T. 19 N., R. 9 W., on left bank 500 ft upstream from bridge on U.S. Highway 80, three-quarters of a mile upstream from Louisiana and Arkansas Railway bridge, 3 miles west of Minden, and 28 miles upstream from Bistineau Dam.

Drainage area.—1,097 sq mi.

Gage-height record.—Water-stage recorder graph. Datum of gage is 133.75 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

Discharge record.—Stage-discharge relation defined by current-meter measurements. Discharge May 8-18 estimated on the basis of one discharge measurement, fall in reach, weather records, and records for nearby station.

Maxima.—April-May 1958: Discharge, 44,800 cfs 8 p.m. May 1 (gage height, 24.90 ft).

1928-31, 1936 to March 1958: Discharge, 40,000 cfs May 21, 1930 (gage height, 22.95 ft), from rating curve extended above 30,000 cfs.

Mean discharge, in cubic feet per second

Day	April	May	Day	April	May	Day	April	May
1	1, 820 1, 980 2, 140 2, 210 2, 210 2, 090 1, 860 1, 640 1, 400 1, 230	44, 100 42, 000 35, 900 30, 000 24, 600 20, 000 11, 000 7, 500 6, 500	11	1, 050 916 812 776 756 740 736 720 712 696	5, 500 5, 000 4, 500 4, 000 3, 500 3, 200 2, 900 2, 860 3, 110	21 22 23 24 25 26 27 28 29 30 31	684 676 688 675 746 1,580 5,560 23,200 35,500 40,200	3, 140 3, 290 3, 250 3, 030 2, 740 2, 340 1, 920 1, 610 1, 410 1, 250 1, 060
Monthly me Runoff Runoff					_thousand	ls of acre-feetinches	4, 533 269. 8 4. 61	9, 675 594. 9 10. 17

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1958

		 	1			1		1
Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharg
Apr. 24			Apr. 27—Con.			May 2		
12 p.m	8. 08	652	10 p.m 12 p.m	18. 58 19. 21	10, 000 12, 000	12 m 12 p.m	24. 54 24. 00	42, 300 38, 700
Apr. 25			Apr. 28		·	May 3		
12 m 12 p.m	8. 31 8. 56	744 844	6 a.m 12 m	20. 71 21. 85	18, 100 24, 200	12 m 12 p.m	23. 58 23. 08	36, 000 32, 800
Apr. 26			6 p.m 12 p.m	22. 57 23. 04	28, 500 31, 900	May 4		
6 a.m 12 m 6 p.m		1, 170 1, 540 1, 950	Apr. 29			12 m 12 p.m	22, 60 22, 10	29, 900 27, 200
12 p.m	11.63	2, 440	12 m 12 p,m	23. 56 23. 95	35, 800 38, 400	May 5		
Apr. 27	11.00	2 240	Apr. 30	20.00	00, 100	12 m 12 p.m	21. 60 21. 12	24, 600 22, 200
2 a.m 4 6	11. 92 12. 20 12. 57	2,640 2,850 3,140	12 m	24. 17	39, 800	May 6		
8	13. 02 13. 55	3, 510 3, 980	12 p.m	24. 58	42,600	12 m 12 p.m	20.64 20.17	19, 900 17, 800
12 m 2 p.m 4	14. 22 15. 08 16. 12	4, 590 5, 450 6, 590	May 1	24. 84	44, 400	May 7		
6 8 p.m	17.08	7, 760 8, 980	8 p.m 12 p.m	24. 90	44, 800 44, 600	12 m 12 p.m	19. 67 19. 21	15, 600 13, 700

47. FLAT RIVER (SHELL BAYOU) NEAR SHREVEPORT, LA.

[Stage Station]

Location.—Lat 32°32'40", long 93°38'30", in SW4SE4 sec. 18, T. 18 N., R. 12 W., near center of span on downstream side of bridge on U.S. Highway 80, 2 miles southwest of Red Chute and 6.4 miles east of Shreveport.

Drainage area.—45.3 sq mi.

Gage-height record.—Water-stage recorder graph. Datum of gage is mean sea level (levels by Corps of Engineers).

Maxima.—April-May 1958: Elevation, 163.15 ft May 4, 5.

1939 to March 1958: Elevation, 165.48 ft Mar. 8-10, 1945.

Flood of July 26, 1933, reached an elevation of 166.97 ft.

Remarks.—Records furnished by Corps of Engineers.

Elevation, in feet, at 8 a.m. of indicated day 1958

Day	April	Мау	Day	April	May	Day	April	May
1	149. 9 149. 9 150. 0 150. 0 150. 1 150. 1 150. 1 150. 1 150. 1	161. 3 162. 0 162. 6 163. 1 163. 1 163. 1 163. 0 162. 7 162. 5 162. 2	11	150. 2 150. 1 150. 0 150. 2 150. 3 150. 0 149. 9 149. 8 149. 7 149. 6	162. 0 161. 7 161. 4 161. 2 161. 0 160. 7 160. 5 160. 2 160. 2	21	149. 4 149. 2 149. 0 148. 8 148. 5 150. 7 154. 8 158. 1 158. 6 160. 0	160. 0 159. 8 159. 6 159. 4 159. 2 159. 1 158. 9 158. 7 158. 6 158. 5 158. 3

48. ALLIGATOR BAYOU NEAR SHREVEPORT, LA.

[Stage station]

Location.—Lat 32°32′25″, long 93°39′05″, in NW¼NW¼ sec. 19, T. 18 N., R. 12 W., on downstream side of bridge on U.S. Highway 80, 5.7 miles east of Shreveport.

Gage-height record.—Water-stage recorder graph. Datum of gage is 152.14 ft above mean sea level (levels by Corps of Engineers).

Maxima.—April-May 1958: Gage height, 10.95 ft May 5.

1938 to March 1958: Gage height, 10.63 ft May 18, 19, 1953.

Remarks.—Records furnished by Corps of Engineers.

Gage height, in feet, at 8 a.m. of indicated day 1958

Day	April	Мау	Day	April	Мау	Day	April	May
1	4.0 3.9 3.9 3.9 3.9 3.9 3.9 3.9	9. 2 9. 8 10. 4 10. 9 10. 95 10. 9 10. 8 10. 5 10. 3	11	3. 9 3. 8 3. 9 3. 9 3. 9 3. 8 3. 8 3. 8	9.8 9.5 9.3 9.0 8.8 8.6 8.3 8.1 8.0	21	3. 8 3. 8 3. 8 3. 8 4. 1 8. 5 6. 9 7. 4 8. 1	7.8 7.7 7.5 7.4 7.2 7.1 7.0 6.8 6.7 6.6

49. BODCAU BAYOU NEAR SAREPTA, LA.

[Formerly published as Bayou Bodcau]

Location.—Lat 32°54′15″, long 93°28′55″, in NW¼ sec. 15, T. 22 N., R. 11 W., on left bank on downstream side of bridge on State Highway 2, 2 miles west of Sarepta and 9.5 miles upstream from Caney Creek.

Drainage area.—546 sq mi.

Gage-height record.—Water-stage recorder graph. Datum of gage is 173.91 ft above mean sea level, datum of 1929, supplementary adjustment of 1941 (levels by Corps of Engineers).

Discharge record.—Stage-discharge relation defined by current meter measurements. Rate of change of stage used as a factor in discharge computations Apr. 26–28. Stage-discharge relation indefinite due to backwater from flood control dam May 3–30; discharge estimated on the basis of stage, fall, weather records and records for nearby stations.

Maxima.—April—May 1958: Discharge, 18,600 cfs 4 a.m. May 2 (gage height, 25.14 ft).

1938 to March 1958: Discharge, 12,600 cfs July 6, 1940 (gage height, 22.16 ft).

Flood of May 22, 23, 1930, exceeded 25 ft, and flood of 1905 may have reached a stage of 27 ft, from information by local residents.

Remarks.—Water used by the paper mill at Springhill is pumped from wells and discharged later as waste into bayou approximately 8 miles above station. This discharge is not continuous but is stored in a reservoir and is released whenever the flow of bayou is sufficient to dilute effiuent from the mill.

Mean discharge, in cubic feet per second

Day	April	Мау	Day	April	May	Day	April	May
1 2 3 4 5 5 3 3 7 7 3	885 824 800 800 821 815 773 746 682 480	17, 200 18, 200 16, 000 14, 000 12, 000 10, 000 9, 000 7, 000 5, 000 3, 000	11	152 30 17 31 24 17 13 10 9.0 7.7	2, 500 2, 500 2, 200 2, 200 1, 700 1, 600 1, 500 1, 400 1, 400 1, 300	21	8.1 7.0 5.7 5.1 19 1,770 7,360 11,100 11,800 13,600	1, 300 1, 200 1, 100 1, 000 900 800 600 500 450 450
Monthly mea	an dischar	ge			thousand	ls of acre-feet	1, 787 106 .3	4, 458 274 .1

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1958

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
Apr. 25			Apr. 26-Con.			Apr. 29		
6 a.m	2. 34 2. 86	6. 0 14 32 40	10 p.m	15. 77	3, 040 3, 120 3, 300	6 a.m	22. 95	11, 700 11, 700 11, 900 12, 200
1 a.m	3. 50 4. 22 5. 55 7. 40 10. 40 12. 50 13. 39	42 69 126 250 442 1,170 2,390 2,430	2 a.m	17. 30 17. 79 18. 25 18. 75 19. 20 19. 68	3, 920 4, 550 5, 200 6, 010 6, 750 7, 590 8, 170 9, 220	6 a.m	23. 95 24. 34	12, 700 13, 500 14, 200 15, 500
9	13. 74 13. 80 13. 86 14. 05	1, 930 1, 750 1, 720 1, 750 1, 920 2, 070	6	20.64 21.02	9,860 10,100 10,100 10,300	12 m 6 p.m 12 p.m May 2	24. 82 25. 03	17, 300 18, 100 18, 400
5	14. 49 14. 70 14. 94 15. 15	2, 280 2, 420 2, 600 2, 690 2, 800	Apr. 28 8 s.m	22.64	10, 900 11, 100 11, 400 11, 600	4 s.m	25. 14 25. 09 24. 83	18, 600 18, 400 17, 300

50. BODCAU BAYOU RESERVOIR NEAR SHREVEPORT, LA.

Location.—Lat 32°42′07′′, long 93°30′39′′, in NW¼NW¼ sec. 28, T. 20 N., R. 11 W., directly above control line of outlet structure, 2.1 miles northeast of Bellevue and 20 miles northeast of Shreveport.

Drainage area.—683 sq mi.

Gage-height record.—Water-stage recorder graph. Datum of gage is mean sea level (levels by Corps of Engineers).

Maxima.—April-May 1958: Contents, 301,000 acre-ft May 11 (elevation 196.67 ft).

1949 to March 1958: Contents, 157,200 acre-ft May 26, 1953 (elevation, 187.01 ft).

Remarks.—Records furnished by Corps of Engineers. Reservoir is formed by earth-fill dam with uncontrolled outlet works and spillway. The reservoir does not retain a permanent pool. Outlet works intake invert at elevation 157.0 ft. Capacity, 967,900 acre-ft at spillway crest (elevation, 219.0 ft). Outlet works completed Dec. 17, 1949. Reservoir built for flood control.

Elevation, in feet, and contents, in acre-feet, at 7 a.m., and mean discharge from reservoir, in cubic feet per second, for 24 hours ending at 7 a.m. of indicated day, 1958

Day		April			May	
•	Elevation	Contents	Discharge	Elevation	Contents	Discharge
1	164.6	6, 550	762	182.5	111,000	2, 540
2	164.8	7,080	796	185.8	144, 100	2,740
3	165.0	7,430	830	188.6	175, 600	2, 910
4	165.0	7, 500	830	190.9	206, 200	3,040
5	165.0	7, 480	830	192.6	231, 700	3, 140
3	165.0	7, 400	830	194.2	257, 200	3, 230
7	165.0	7, 360	830	195.2	274, 600	3, 280
8	165.0	7, 310	830	195.9	286, 800	3, 320
9	164.9	7, 240	813	196.3	294, 500	3, 350
10	164.8	7, 100	796	196.6	299, 700	3, 370
	104.0		700	100.00	901 000	0.070
11	164.8	6, 880	796	196.67	301,000	3, 370
12	164.5	6, 370	745	196.6	299, 500	3, 370
13	164.1	5, 470	673	196.4	296, 900	3, 350
14	163.6	4,600	587	196.3	293, 800	3, 350
15	163.2	3, 880	519	196.1	289, 700	3, 340
16	162.7	3, 160	440	195.8	285, 200	3, 320
17	162.1	2, 530	354	195.6	280, 700	3, 310
18	161.6	2,040	288	195.3	275, 900	3, 290
19	161.1	1, 630	227	195.2	274, 200	3, 280
20	160.7	1, 310	182	195.0	270, 300	3, 270
21	160.3	1,060	142	194.7	265, 400	3, 260
22	159.8	850	99	194.4	260, 500	3, 240
23	159.4	660	66	194.1	255, 400	3, 220
24	159.9	510	107	193.8	250, 300	3, 210
25	158.8	470	37	193.4	244, 500	3, 180
26	161.2	1, 720	239	193.0	238, 200	3, 160
27	165.8	9, 490	955	192.6	231, 600	3, 140
28	170.8	29, 170	1,600	192.2	225, 300	3, 110
29	174.6	49, 630	1, 970	191.7	218, 500	3,080
30	178.5	76, 980	2, 280	191.3	212,000	3, 060
31				190.8	205, 300	3, 040
Change in contents, acre-feet.		+71, 290			+128, 300	

51. CYPRESS BAYOU NEAR BENTON, LA.

Location.—Lat 32°42′20″, long 93°41′15″, in NW¼SW¼ sec. 23, T. 20 N., R. 13 W., near right bank on downstream side of bridge on State Highway 162, 2 miles upstream from Little Caney Bayou and 3 miles east of Benton.

Drainage area.—133 sq mi.

Gage-height record.—Water-stage recorder graph. Datum of gage is 165.98 ft above mean sea level, datum of 1929 (authority, Corps of Engineers). Discharge record.—Stage-discharge relation defined by current-meter measurement.

Maxima.—April-May 1958: Discharge, 8,350 cfs 9 p.m. Apr. 27 (gage height, 15.18 ft).

1956 to March 1958: Discharge, 8,130 cfs Apr. 28, 1957 (gage height, 15.08 ft).

Mean discharge, in cubic feet per second

Day	April	Мау	Day	April	Мау	Day	April	Мау
1 2 3 3 5 5 7 7 8	139 100 79 66 55 45 37 29 25 26	4, 370 3, 920 2, 600 2, 230 1, 890 1, 410 985 548 381 292	11	48 56 42 60 138 144 94 54 42 40	389 520 430 280 146 86 62 48 60 156	21	38 35 33 25 29 706 6, 300 6, 790 3, 820 3, 920	223 189 91 51 37 27 20 16 14 14
Runoff					thousand	ls of acre-feet inches	767 45.65 6.44	694 42.65 6.01

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1958

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
Apr. 25 12 m	2, 66 2, 90	28 38	Apr. 27—Con. 12 m	14. 48 14. 76 15. 18 15. 16	6, 860 7, 400 8, 350 8, 300	A pr. 30 8 a.m	12. 67 13. 12 13. 23 13. 06	3, 580 4, 300 4, 490 4, 210
4 a.m	7. 54 9. 20	78 390 590 820 1, 180 2, 320	Apr. 28 12 m 12 p.m Apr. 29	14. 50 13. 56	6, 900 5, 070	May 1 12 m 12 p.m May 2	13. 16 13. 26	4, 370 4, 540
4 a.m 8 a.m	13. 12 13. 90	4, 300 5, 700	12 m 12 p.m	12. 72 12. 17	3, 660 2, 890	12 m 12 p.m	12. 95 12. 31	4, 030 3, 070

52. RED CHUTE BAYOU NEAR SHREVEPORT, LA.

[Stage Station]

Location.—Lat $32^\circ 33' 15''$, long $93^\circ 37' 26''$, in NW¼NE¼ sec. 17, T. 18 N., R. 12 W., at bridge on U.S. Highway 80, 7 miles east of Shreveport.

Drainage area.—925 sq mi.

Gage-height record.—Water-stage recorder graph except Apr. 27-May 3. Datum of gage is 133.83 ft above mean sea level (levels by Corps of Engineers).

Maxima.—April-May 1958: Gage height, 27.62 ft May 4, 5.

1939 to March 1958: Gage height, 31.1 ft Jan. 4, 5, 1941.

Flood of July 26, 1933 reached a stage of 33.1 ft.

Remarks.—Records furnished by Corps of Engineers.

Gage height, in feet, at 8 a.m. of indicated day 1958

Day	April	May	Day	April	Мау	Day	April	Мау
1	16. 5 16. 7 16. 7 16. 8 17. 0 17. 1 17. 0 17. 0 17. 0	27. 62 27. 62 27. 6 27. 4 27. 2 27. 0 26. 8	11	17. 0 17. 0 17. 0 17. 0 16. 9 16. 8 16. 7 16. 6 16. 5 16. 3	26. 6 26. 4 26. 2 26. 0 25. 8 25. 6 25. 4 25. 3 25. 3	21	16. 2 15. 9 15. 8 15. 5 15. 3 16. 1	25. 1 25. 0 24. 8 24. 6 24. 5 24. 3 24. 2 24. 0 24. 0 23. 8 23. 7

53. LOGGY BAYOU NEAR NINOCK, LA.

Location.—Lat 32°14′10′′, long 93°25′35′′, in SE¼ SE¼ sec. 31, T. 15 N., R. 10 W., near center of span on downstream side of bridge on U.S. Highway 71, a quarter of a mile downstream from Flat River, 2 miles southeast of Ninock, and 6 miles downstream from Lake Bistineau Dam.

Drainage area.-2,628 sq mi.

Gage-height record.—Water-stage recorder graph. Datum of gage is 100.26 ft above mean sea level, datum of 1929, supplementary adjustment of 1941 (levels by Corps of Engineers). Auxiliary water-stage recorder 6 miles downstream at datum 0.05 ft lower.

Discharge record.—Slope-stage-discharge relation defined by current-meter measurements. Discharge computed by using fall as determined from auxiliary gage as a factor. Discharge May 1-19 computed on the basis of 5 discharge measurements, precipitation records, stage of Red River, and records for nearby stations.

Maxima.—April-May 1958: Daily discharge, 32,600 cfs May 4; gage height, 47.83 ft 10 p.m. May 8.

1948 to March 1958: Daily discharge, 20,000 cfs May 21, 22, 1953; gage height, 47.08 ft May 7, 1957.

Remarks.—Flood flow affected by Bodcau Bayou Reservoir.

Mean discharge, in cubic feet per second

Day	April	Мау	Day	April	May	Day	April	Мау
1	3, 010 2, 950 2, 930 3, 090 3, 060 3, 190 3, 210 3, 040 2, 920 2, 820	28, 500 31, 500 32, 500 32, 600 30, 500 28, 000 26, 000 23, 000 21, 500 20, 500	11	2, 620 2, 440 2, 140 2, 280 2, 240 2, 090 1, 950 1, 820 1, 740 1, 600	20, 000 20, 000 20, 000 20, 000 19, 500 19, 500 19, 500 19, 500 19, 600	21	1, 540 1, 450 1, 340 1, 220 1, 220 1, 720 3, 210 6, 250 9, 690 17, 600	17, 300 15, 400 13, 200 11, 400 10, 000 8, 790 7, 480 6, 400 5, 850 5, 510 5, 170
Monthly me Runoff	an dischar	ge			thousand	ls of acre-feet	3, 213 191. 2	18, 600 1, 144

54. BAYOU PIERRE NEAR GAYLE, LA.

[Stage station]

Location.—Lat 32°18′00″, long 93°37′40″, in NW¼SW¼ sec. 8, T. 15 N., R. 12 W., at bridge on parish road 3.2 miles south of Gayle, and 64.9 miles above mouth.

Gage-height record.—Water-stage recorder graph. Datum of gage is 126.94 ft above mean sea level (levels by Corps of Engineers).

Maxima.—April-May 1958: Gage height, 10.28 ft 9 a.m. May 1.

1938 to March 1958: Gage height, 22.66 ft Jan. 6, 1946.

Remarks.—Records furnished by Corps of Engineers.

Gage height, in feet, at 8 a.m. of indicated day 1958

Day	April .	May	Day	April	May	Day	April	May
1	4. 6 4. 5 4. 2 4. 0 3. 7 3. 6 3. 5 3. 5 3. 5	10. 26 9. 0 8. 4 9. 9 9. 4 9. 0 8. 6 8. 0 7. 5 7. 0	11 12 13 14 15 16 16 17 18 19 20 20 1	3. 4 3. 7 3. 9 4. 0 4. 2 4. 3 4. 1 3. 9 3. 8	6.4.8 5.5.8 4.1.8 3.8 3.9	21	3.6 3.5 3.5 3.4 3.6 4.4 6.7 6.1 6.2	4.5 4.5 4.2 4.0 3.7 3.6 3.5 3.4 3.3 3.3

55. BOGGY BAYOU NEAR KEITHVILLE, LA.

Location.—Lat 32°22′35″, long 93°49′20″, in NW¼SE¼ sec. 17, T. 16 N., R. 14 W., near right bank on downstream side of bridge on U.S. Highway 171, 0.4 mile downstream from Gilmer Bayou, 3 miles north of Keithville, and 5 miles upstream from mouth.

Drainage area.-79 sq mi.

Gage-height record.—Water-stage recorder graph. Datum of gage is 145.13 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).

Discharge record.—Stage-discharge relation defined by current-meter measurements.

Maxima.—April-May 1958: Discharge, 1,460 cfs 12 m. May 4 (gage height, 16.46 ft).

1938 to March 1958: Discharge, 14,800 cfs Jan. 5, 1946 (gage height, 20.2 ft, from graph based on gage readings).

Maximum stage known, 26.7 ft in 1933, from floodmark.

Mean discharge, in cubic feet per second

Day	April	Мау	Day	April	May	Day	April	Мау
12 34 56	43 30 23 19 15	1, 130 836 761 1, 340 662 278	11 12 13 14 15	17 16 14 20 49 36 22	62 28 17 12 9. 9 8. 3	21 22 23 24 25 26	12 11 9.9 9.0 8.9	16 8.4 6.0 5.0 4.3
7 8 9 10	10 8.9 8.9 12	64 34 26 56	17 18 19 20	22 -15 -13 -12	7. 4 6. 8 11 22	27 28 29 30 31	673 671 494 835	3. 3 3. 3 3. 0 2. 8 2. 8
						ds of acre-feet inches	105 6. 22 1. 48	178 10. 77 2. 56

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1958

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
Apr. 25			Apr. 28-Con.			May 3—Con.		
12 p.m	9.12	9.3	6 p.m 12 p.m	15. 57 15. 38	610 555	6 p.m 12 p.m	16.03 16.40	890 1, 380
Apr. 26	9. 14	9.6	Apr. 29			May 4		
12 m 2 p.m 6	9. 25 9. 40 9. 68 9. 90 10. 20	11 14 18 22 28	6 a.m 12 m 6 p.m 12 p.m	15. 13 14. 76 15. 10 15. 70	482 407 475 670	6 a.m 12 m 6 p.m 12 p.m	16. 45 16. 46 16. 35 16. 12	1, 450 1, 460 1, 280 972
11 12 p.m	11. 20 11. 80	49 75	Apr 30			May 5		
Apr. 27 1 a.m	12. 27 12. 75 13. 10	102 144 177	6 a.m	15. 95 15. 99 16. 00 16. 08	820 852 860 940	6 a.m	15. 85 15. 63 15. 40 15. 12	738 630 555 475
5	13. 75 14. 12 14. 50 15. 00 15. 40 15. 70 15. 93 16. 10 16. 17	254 303 362 455 555 670 804 960 1,040	May 1 6 a.m	16. 30 16. 30 16. 22 16. 19	1, 220 1, 220 1, 120 1, 070	3 a.m	14. 90 14. 63 14. 28 13. 90 13. 50 13. 12 12. 75 12. 42	426 380 324 268 217 177 139 114
2	16. 18 16. 17 16. 16 16. 12 15. 96	1, 060 1, 040 1, 030 984 828	6 a.m	16. 13 15. 95 15. 75 15. 54	996 820 695 606	May 7 4 a.m	12. 04 11. 72 11. 45	86 68 57
Apr. 28 6 a.m	15. 82 15. 67	732 650	May 8 6 a.m	15. 39 15. 55	552 610	4 p.m 8 12 p.m	11. 24 11. 05 10. 88	49 44 41

56. WALLACE LAKE NEAR SHREVEPORT, LA.

Location.—Lat 32°19'05", long 93°40'15", in NE¼ sec. 2, T. 15 N., R. 13 W., at dam, 4¾ miles north of Frierson and 12 miles southeast of Shreveport.

Drainage area.—266 sq mi.

Gage-height record.—Water-stage recorder graph. Datum of gage is mean sea level (levels by Corps of Engineers).

Maxima.—April-May 1958; Contents, 31,500 acre-ft May 5 (elevation, 148.60 ft).

1946 to March 1958; Contents, 56,500 acre-ft May 18, 1953 (elevation, 153.00 ft).

Remarks.—Records furnished by Corps of Engineers.

Elevation, in feet, and contents, in acre-feet, at 7 a.m., and mean discharge from reservoir, in cubic feet per second, for 24 hours ending at 7 a.m. of indicated day, 1958

Day		April			May	
- ··•	Elevation	Contents	Discharge	Elevation	Contents	Discharge
1	143. 0	10, 350	385	145. 2	17, 170	871
	143. 0	10, 400	385	146. 4	21, 750	1, 080
	143. 0	10, 140	340	147. 0	24, 230	1, 180
	142. 8	9, 840	272	147. 6	27, 010	1, 280
	142. 8	9, 640	250	148. 48	30, 970	1, 420
6	142. 6	9, 340	196	148. 55	31, 260	1, 440
	142. 5	9, 040	144	148. 2	29, 640	1, 380
	142. 4	8, 780	106	147. 7	27, 360	1, 300
	142. 4	8, 710	95. 5	147. 2	25, 160	1, 220
	142. 4	8, 710	95. 5	146. 7	23, 220	1, 140
11	142. 4	8, 640	85. 0	146. 3	21, 470	1, 060
	142. 3	8, 540	71. 8	145. 9	19, 870	999
	142. 3	8, 480	65. 2	145. 5	18, 390	915
	142. 3	8, 510	68. 5	145. 2	17, 060	849
	142. 4	8, 640	85. 0	144. 8	15, 840	782
16	142. 4	8, 740	99. 0	144. 5	14, 720	713
	142. 4	8, 760	102	144. 2	13, 760	663
	142. 4	8, 710	95. 5	143. 9	12, 840	582
	142. 4	8, 640	85. 0	143. 7	12, 410	555
	142. 3	8, 560	75. 1	143. 6	11, 970	521
21	142. 3	8, 510	68. 5	143. 4	11, 540	487
	142. 3	8, 460	61. 9	143. 3	11, 100	419
	142. 2	8, 360	49. 3	143. 1	10, 550	362
	142. 2	8, 310	43. 9	142. 9	10, 110	295
	142. 2	8, 260	38. 5	142. 8	9, 780	250
26	142. 3	8, 460	61. 9	142. 7	9, 460	200
	142. 3	8, 510	68. 5	142. 6	9, 160	152
	142. 7	9, 510	214	142. 4	8, 880	113
	143. 1	10, 640	385	142. 4	8, 760	95. 5
	143. 7	12, 320	555	142. 3	8, 560	71. 8
31				142. 3	8, 440	61. 9
Change in contents, acre-feet.		+2,560			-3,880	

57. LAKE OUACHITA NEAR HOT SPRINGS, ARK.

Location.—Lat 34°34′20′′, long 93°11′50′′, in NE1/4 sec. 12, T. 2 S., R. 21 W., at Blakely Mountain Dam on Ouachita River, 3.0 miles upstream from Glazypeau Creek, 3.8 miles downstream from Mill Creek, and 10 miles northwest of Hot Springs.

Drainage area.-1,105 sq mi.

Gage-height record.—Water-stage recorder graph. Elevation at 8 a.m. used to determine contents. Datum of gage is at mean sea level, datum of 1929. Maxima.—April-May 1958: Contents, 2,383,100 acre-ft May 6 (elevation, 583.57 ft).

 $1952\ to\ March\ 1958\colon Contents,\ 2,402,100\ acre-ft\ May\ 1,\ 1957\ (elevation,\ 584.01\ ft)\,.$

Remarks.—Reservoir is formed by dam of rolled earth fill. Reservoir is used for the dual purpose of flood control and power generation. Spillway is a 200-floot wide uncontrolled channel in natural saddle of ridge west of dam. Flood control flow is regulated by three 8- by 15-floot gates. The powerplant consists of 2 vertical type 37,500 kw generating units.

Capacity of reservoir, 2,768,000 acre-ft at elevation 592.0 ft (spillway crest) of which 617,000 acre-ft are available for flood-control storage, 1,286,000 acre-ft are for power storage and 865,000 acre-ft are permanent storage. Water below elevation 480.0 ft cannot be released. Figures given herein represent total contents. Records furnished by Corps of Engineers.

Elevation, in	feet	. and contents	. in acre-feet	. at 8 a.m. c	of indicated day, 18	958
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	A	pril	ľ	May		I	pril	Мау	
Day	Ele- vation	Con- tents	Ele- vation	Con- tents	Day	Ele- vation	Con- tents	Ele- vation	Con- tents
1	573. 21 573. 35 573. 50 573. 59 573. 72 573. 76 573. 76	1, 963, 100 1, 965, 700 1, 970, 900 1, 976, 600 1, 984, 800 1, 986, 300 1, 986, 300 1, 990, 800 1, 993, 100	578. 05 578 91 581. 16 582. 89 583. 39 583. 54 583. 55 583. 42 583. 20 583. 36	2, 153, 100 2, 187, 800 2, 280, 500 2, 353, 800 2, 375, 300 2, 381, 800 2, 382, 200 2, 376, 600 2, 367, 100 2, 374, 000	16	574. 80 574. 96 575. 06 575. 16 575. 25 575. 90 576. 31 576. 49 576. 66 576. 59	2, 025, 800 2, 031, 900 2, 035, 800 2, 039, 600 2, 043, 100 2, 068, 200 2, 084, 200 2, 091, 300 2, 095, 200	581. 94 581. 56 581. 20 580. 84 580. 48 580. 22 579. 95 579. 71 579. 43 579. 22	2, 313, 400 2, 297, 400 2, 282, 200 2, 267, 100 2, 252, 200 2, 241, 100 2, 230, 300 2, 220, 500 2, 200, 400 2, 200, 400
11 12 13 14 15	574. 23 574. 32	1, 999, 200 2, 004, 100 2, 007, 500 2, 012, 500 2, 018, 600	583, 44 583, 24 582, 95 582, 64 582, 29	2, 377, 500 2, 368, 900 2, 356, 400 2, 343, 200 2, 328, 200	26	576. 63 577. 09 577. 60 577. 86 578. 00	2, 096, 800 2, 114, 900 2, 135, 200 2, 145, 500 2, 151, 100	578 93 578. 66 578. 42 578. 12 577. 94 577. 91	2, 188, 600 2, 177, 700 2, 168, 000 2, 155, 900 2, 148, 700 2, 147, 500
Change in co	ontents,	acre-feet					+186, 400		-3,600

58. OUACHITA RIVER NEAR MALVERN, ARK.

Location.—Lat 34°23'10", long 92°50'20", in NW¼ sec. 16, T. 4 S., R. 17 W., near right bank on downstream side of pier of bridge on State Highway 84, 2 miles northwest of Malvern and 5.8 miles downstream from Remmel Dam. Drainage area.—1,562 sq mi.

Gage-height record.—Water-stage recorder graph. Datum of gage is 228.05 ft above mean sea level, datum of 1929.

Discharge record.—Stage-discharge relation defined by current-meter measurements.

Maxima.—April-May 1958: Discharge, 55,200 cfs 12 p.m. May 2 (gage height, 21.16 ft).

1903-5, 1922-24, 1937 to March 1958: Discharge, 140,000 cfs May 15, 1923 (gage height, 30.3 ft).

Remarks.—Flow regulated by Lake Catherine since 1925 (capacity, 13,950 acre-ft), by Lake Hamilton since 1932 (capacity, 70,560 acre-ft), and by Lake Ouachita since July 1952 (see preceding record). No significant regulation by Lake Catherine and Lake Hamilton during flood period.

Mean discharge, in cubic feet per second

Day	April	May	Day	April	May	Day	April	Мау
1	352 336 1, 570 1, 710 1, 010 441 1, 740 1, 260 846	12, 800 25, 700 31, 100 17, 600 8, 820 4, 190 7, 290 9, 470 10, 200 10, 900	11	586 399 1, 030 1, 800 1, 750 1, 100 827 780 756 1, 230	8, 820 10, 300 9, 980 8, 980 9, 470 9, 140 8, 820 9, 470 8, 820 8, 980	21	1, 940 3, 050 2, 040 3, 050 3, 050 4, 190 8, 820 8, 660 8, 340 8, 980	6, 010 5, 870 5, 470 5, 780 5, 210 3, 370 3, 370 3, 370 712 394
Monthly me	an dischar	ge			_thousand	is of acre-feet	2, 405 143, 1	8, 911 547. 9

59. CADDO RIVER NEAR ALPINE, ARK.

Location.—Lat 34°16′, long 93°22′, in SE½ sec. 28, T. 5 S., R. 22 W., at Runyan Bridge on gravel road between Alpina and Bismark, 2½ miles northeast of Alpine, 7.1 miles downstream from Sugar Fork, and 33.8 miles upstream from mouth.

Drainage area.-312 sq mi.

Gage-height record.—Water-stage recorder graph except May 2-4. Datum of gage is 394.85 ft above mean sea level, datum of 1929.

Discharge record.—Stage-discharge relation defined by current-meter measurements below 38,000 cfs. Discharge for period of no gage-height record computed on basis of unit-hydrograph study and floodmark.

Maxima.—April-May 1958: Discharge, 36,500 cfs 2 p.m. May 2 (gage height, 20.18 ft, from floodmark).

1938 to March 1958: Discharge, 64,200 cfs Mar. 30, 1945 (gage height, 30.16 ft).

Remarks.—Records furnished by Corps of Engineers.

Day	April	Мау	Day	April	Мау	Day	April	Мау
1	760 694 742 652 540 450 385 328 480 820	8, 790 25, 900 17, 300 7, 050 2, 530 1, 520 1, 080 828 1, 120 2, 200	11	1, 200 890 676 995 1, 450 1, 200 925 730 610 925	1, 320 930 745 600 479 401 303 303 299 307	21	1, 240 925 694 575 490 2, 270 9, 500 4, 050 2, 870 1, 710	256 216 190 171 148 171 142 137 135 122
Monthly me Runoff		-			thousand	ls of acre-feet inches	1, 326 78. 89 4. 74	2, 445 150. 4 9. 04

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1958

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
Apr. 25			Apr. 29—Con.			May 3		
12 p.m	2. 23	555	4 a.m	5. 89	4, 050	2 a.m		25,000
Арт. 26		ļ	8	5. 39 5. 10	3, 350 2, 940	6		21,000 18,000
			10	4.93	2,710	12 m		16,500
2 a.m	2.63	778	12 m	4.79	2,540	2 p.m		15, 200
4 6	3. 93 4. 27	1,680 1,990	2 p.m	4. 69 4. 63	2, 430 2, 360	8		14,000 12,000
8	4. 37	2,090	6	4.53	2, 250	10		11, 300
10	4. 37	2,090	8	4.43	2, 150	12 p.m		10, 700
12 m 2 p.m	4, 29 4, 40	2, 010 2, 120	10 12 p.m	4. 34 4. 24	2,060 1,960	May 4		
4	4. 53	2, 250	12 p.m	4. 24	1, 500	May 4		
6	4. 55	2, 280	Apr. 30			4 a.m		9,400
8	4.75 5.67	2,500 3,740	_			8 12 m		8,000 6,800
12 p.m.	7. 97	6, 960	6 a.m 12 m	4.07 3.86	1,800 1,630	4 p.m		5,900
4 600		1	4 p.m	3.79	1,580	8		4,800
Apr. 27		1	8	3. 89	1,650	12 p.m		4, 100
2 a.m	9. 87	10, 200	12 p.m	3.85	1,620	May 5		
4	10.67	11,800	May 1				0	0.100
6 8	10.94 11.07	12,500 12,800				4 a.m	5. 70 5. 33	3, 180 2, 680
10	10.87	12,300	2 a.m	3.85	1,620	12 m	5.08	2,390
12 m	10.12	10,700	4 6	4. 12 5. 93	1,850 4,100	4 p.m	4.85	2, 160
2 p.m	9. 27 8. 67	9, 100 8, 040	8	8.31	7, 470	8 12 p, m	4. 63 4. 43	1, 970 1, 810
6	8. 19	7, 280	10	11.07	12, 800	(-	1. 10	1,010
8	7.81	6, 730	12 m 2 p.m	11. 89 11. 67	14, 800 14, 300	May 6		
10 12 p.m	7. 44 7. 10	6, 220 5, 740	4	11. 29	13, 300	6 a.m	4, 20	1,640
12 p.m	7. 10	0,740	6	10.65	11, 800	12 m	4.02	1.510
Apr. 28		. 1	8	9. 85 8. 99	10, 200 8, 580	6 p.m	3.83	1,380
2 a.m	6, 83	5, 360	12 p.m	8.43	7,660	12 p.m	3.64	1, 250
4	6.60	5,040	-		.,	May 7		
6	6.33	4,660	May 2				0.50	1 150
8	6. 14 5. 95	4, 400 4, 130	2 a.m	8.00	7,000	6 a.m 12 m	3.50 3.38	1, 150 1, 070
12 m	5. 77	3, 880	4		9, 540	6 p.m.	3. 27	1,000
2 p.m	5. 59	3,630	6		16, 600	12 p.m	3.14	924
6	5. 45 5. 30	3, 430 3, 220	8		23,000 30,500	May 8		
8	5. 17	3,040	12 m		35,000	11149 0		
10	5. 11	2, 950	2 p.m	20.18	36, 500	6 a.m	3.04	867
12 p.m	5. 87	4, 020	6		36, 300 35, 000	12 m 6 p.m	2.96 2.88	825 785
Apr. 29			8		33,000	12 p.m.	2.80	745
	0.00		10		30, 500]		
2 a.m	6. 32	4,650	12 p.m		27, 500			

Note.—Daily means cannot be computed precisely from figures shown.

60. OUACHITA RIVER AT ARKADELPHIA, ARK.

Location.—Lat 34°07′16′′, long 93°02′46′′, on line between secs. 16 and 21,
T. 7 S., R. 19 W., near center of bridge on downstream side of pier of bridge on State Highway 7 at Arkadelphia, 800 ft upstream from Missouri Pacific Railroad bridge, and 5.4 miles downstream from Caddo River.

Drainage area.—2,311 sq mi.

Gage-height record.—Water-stage recorder graph. Datum of gage is 160.30 ft above mean sea level, datum of 1929, supplementary adjustment of 1941.

Discharge record.—Stage-discharge relation defined by current-meter measurements.

Maxima.—April-May 1958: Discharge, 119,000 cfs 3 a.m. May 3 (gage height, 27.65 ft).

1929 to March 1958: Discharge, 170,000 cfs Mar. 30, 1945 (gage height, 30.3 ft), from rating curve extended above 130,000 cfs.

Remarks.—For regulation see Remarks for station near Malvern. Records furnished by Corps of Engineers.

Mean discharge, in cubic feet per second

Day	April	Мау	Day	April	Мау	Day	April	Мау
1	1, 700 1, 390 1, 270 2, 710 2, 660 1, 890 1, 230 2, 270 1, 150 2, 160 2, 160	34, 600 77, 100 100, 000 47, 000 23, 400 10, 800 7, 440 8, 900 10, 600 14, 600 12, 500	12 13 14 15 16 17 18 19 20 21 22	1, 940 1, 560 2, 440 3, 700 3, 590 2, 820 2, 100 2, 100 2, 100 3, 370 4, 360	10, 500 10, 700 9, 420 9, 160 9, 030 8, 380 8, 640 8, 510 8, 770 7, 220 5, 900	23. 24. 25. 26. 27. 28. 29. 30.	3, 700 3, 700 3, 810 9, 510 25, 100 20, 400 14, 100	5, 570 5, 350 5, 460 5, 460 4, 470 3, 810 3, 700 3, 040 1, 150
Monthly me	ean dischar	ge			thousand	s of acre-feet	4, 863 289. 4	15, 520 954. 4

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1958

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
Apr. 25 12 p.m Apr. 26	7. 76	3, 990	Apr. 29—Con. 10 p.m	14. 90 14. 68	12, 700 12, 400	May 3—Con. 10 a.m	26. 88 26. 66 26. 43	105, 000 101, 000 96, 500
2 a.m	7. 88 8. 27 9. 00 9. 65 10. 65 12. 10	4, 120 4, 550 5, 410 6, 190 7, 480 9, 370	Apr. 30 2 a.m	14. 53 14. 38 14. 26 14. 02 13. 90	12, 100 11, 900 11, 800 11, 400 11, 300	4	26. 24 26. 08 25. 85 25. 56 25. 30	92, 900 89, 800 85, 400 79, 900 75, 000
2 p.m. 4	13. 42 14. 47 15. 40 15. 80 16. 40	11, 100 12, 600 14, 400 15, 200 16, 400	2 p.m. 4. 6. 8. 10. 12 p.m.	14. 13 17. 00 18. 60 19. 00 19. 45 19. 85	11, 600 16, 000 20, 100 21, 400 23, 006 24, 400	2 a.m	25. 03 24. 68 24. 25 24. 10 23. 56 23. 10 22. 74	69, 900 63, 200 55, 800 53, 600 47, 000 42, 700 40, 000
2 a.m	17. 20 18. 10 18. 90 19. 56 20. 56 20. 76 20. 70	18, 000 19, 800 21, 700 23, 700 27, 400 28, 300 28, 000	2 a.m	20. 30 20. 86 21. 30 21. 59 21. 84 22. 06 22. 23	26, 200 28, 800 31, 300 33, 000 34, 500 35, 900 36, 900	6	22. 35 22. 07 21. 40 21. 10	37, 600 35, 900 31, 900 30, 100
461012 p.m	20, 75 20, 80 20, 72 20, 52	28, 200 28, 500 28, 100 27, 300	4	22. 42 22. 58 22. 66 22. 66	38, 000 39, 000 39, 500 39, 500	2 a.m	20. 86 20. 55 20. 26 20. 00 19. 85 19. 70 19. 50	28, 800 27, 300 26, 000 25, 000 24, 400 23, 900 23, 100
2 a.m	20. 32 19. 65 19. 38 18. 83 18. 48 18. 15 17. 74	26, 300 23, 700 22, 700 20, 900 19, 800 18, 800 17, 700	2 a.m	22. 60 22. 78 23. 06 23. 50 24. 34 25. 21 26. 32	39, 100 40, 300 42, 400 46, 300 57, 300 73, 300 94, 400	461012 p.m	19. 05 18. 68 17. 70 17. 15	21, 600 20, 400 17, 600 16, 300
6 10 12 p.m Apr. 29	17. 42 16. 72 16. 57	16, 900 15, 500 15, 200	4	27. 02 27. 33 27. 50 27. 40 27. 50	108, 000 114, 000 117, 000 115, 000 117, 000	2 a.m. 4	16. 38 15. 85 14. 62 13. 82 13. 20 12. 60	14, 900 14, 100 12, 300 11, 200 10, 300 9, 550
4 a.m. 8	16. 54 16. 31 16. 06 15. 70 15. 54 15. 30 15. 07	15, 200 14, 800 14, 400 13, 800 13, 600 13, 200 12, 900	May 3 2 a.m	27. 58 27. 65 27. 50 27. 27 27. 13	118, 000 119, 000 117, 000 112, 000 110, 000	6	12. 05 11. 62 11. 03 10. 70 10. 46	8, 840 8, 280 7, 580 7, 220 6, 960

Note.—Daily means cannot be computed precisely from figures shown.

61. LAKE GREESON NEAR MURFREESBORO, ARK.

Location.—Lat 34°08'55", long 93°42'55", in NW¼ sec. 18, T. 7 S., R. 25 W., at Narrows Dam on Little Missouri River, 6.5 miles northwest of Murfreesboro and 9.7 miles upstream from Muddy Fork Creek.

Drainage area.-237 sq mi.

Gage-height record.—Water-stage recorder graph. Elevation at 8 a.m. used to determine contents. Datum of gage is at mean sea level, datum of 1929. Maxima.—April-May 1958: Contents, 359,100 acre-ft May 6 (elevation, 557.81 ft).

1949 to March 1958: Contents, 359,330 acre-ft May 21, 1953 (elevation, 557.84 ft).

Remarks.—Reservoir is formed by dam of concrete gravity construction comprised of two nonoverflow abutment sections, a flood control section containing two regulated outlets, an uncontrolled overflow spillway section and stilling basin, and a power intake section containing three 10-foot diameter penstocks. Capacity, 408,000 acre-ft at elevation 563.0 ft (crest of spillway) of which 202,000 acre-ft is available for power storage, 128,000 acre-ft is available for flood control storage, and 78,000 acre-ft is permanent storage for incidental recreational purposes at elevation 504.0 ft. Water below elevation 436.9 ft cannot be withdrawn through outlet tunnel. Reservoir is used for the dual purpose of flood control and electric generation. Power generation began May 27, 1950. Figures given herein represent total contents. Records furnished by Corps of Engineers.

Elevation.	in	feet.	and contents,	in	acre-	feet.	at 8 a.m.	of	'indicated dan	u. 1958
		,,,,,	and controlled		wo. 0	,	,	~,	production and	,, 2000

	A	pril	M	Iay		A	pril	May	
Day	Eleva- tion	Con- tents	Eleva- tion	Con- tents	Day	Eleva- tion	Con- tents	Eleva- tion	Con- tents
1 2 3.	544. 03 544. 05 544. 10	252, 100 252, 200 252, 500	548. 97 552. 30 556. 00	286, 800 312, 400 343, 100	19 20	544. 86 544. 98	257, 700 258, 500	551.87 551.02	3 09, 000 3 02, 3 00
4 5	544. 19 544. 20	253, 100 253, 200	557. 46 557. 73	355, 900 358, 400	21 22 23	545. 28	260, 100 260, 500 260, 300	550. 17 549. 71 549. 31	295, 800 292, 400 289, 400
6 7 8	544. 33	253, 100 253, 300 254, 100	557. 80 557. 73 557. 48	359, 000 358, 400 356, 100	24 25	545. 20 545. 18	260, 000 259, 800	548. 90 548. 48	286, 300 283, 200
9	544. 40 544. 55	254, 600 255, 600	556, 95 557, 07	351, 400 352, 400	26 27 28	546. 67 547. 57	260, 000 270, 200 276, 600	548. 04 547. 86 547. 60	280, 000 278, 700 276, 800
11 12 13	544. 66 544. 77	255, 800 256, 300 257, 100	557. 04 556. 92 556. 41	352, 200 351, 100 346, 700	30	548. 07	279, 200 280, 200	547. 34 547. 07	275, 000 273, 000
14 15 16	544. 88	257, 800 257, 800	555. 71 555. 00 554. 28	340, 600 334, 500	Change in			546. 91	271, 900
17 18	545, 11	258, 500 259, 400 258, 500	553. 49 552. 68	328, 500 322, 000 315, 400	contents, in acre- feet		+28, 600		-8, 800

62. MUDDY FORK CREEK NEAR MURFREESBORO, ARK.

Location.—Lat 34°04'59", long 93°45'07", in NE¼ sec. 3, T. 8 S., R. 26 W., on right bank at Murfreesboro Dam site, 1.8 miles upstream from mouth, and 3 miles northwest of Murfreesboro.

Drainage area.—121 sq mi.

Gage-height record.—Water-stage recorder graph, except May 3-9. Datum of gage is 337.29 ft above mean sea level, datum of 1929.

Discharge record.—Stage-discharge relation defined by current-meter measurements below 24,000 cfs. Discharge for period of no gage-height record estimated on basis of rainfall records and records for nearby stations.

Maxima.—April—May 1958: Discharge, 35,100 cfs 1 p.m. May 2 (gage height, $26.28 \ \mathrm{ft}$).

 $1940\ \mathrm{to}$ March $1958\colon$ Discharge, $47{,}100\ \mathrm{cfs}$ Mar. $30,\ 1945\ (\mathrm{gage}\ \mathrm{height},\ 29.7\ \mathrm{ft})\,.$

Mean discharge, in cubic feet per second

Day	April	Мау	Day	April	May	Day	April	Мау
1	146 128 134 130 91 64 50 43 150 210	10, 700 17, 400 3, 700 1, 360 790 280 440 580 1, 360 950	11	154 101 78 412 711 345 221 162 144 201	440 263 174 119 83 36 48 38 36	21	358 184 134 108 86 1,170 5,300 975 742 1,040	28 23 23 21 18 18 17 22 19 18
Runoff						is of acre-feet inches_	459 27.32 4.23	1, 260 77, 45 12, 00

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1958

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
Apr. 25			Apr. 28			May 1		
10 p.m	5. 72 5. 96 6. 50 7. 55	78 108 530 597 758 1, 150 1, 150	2 a.m	7. 28 6. 98 6. 72 6. 61 6. 65 6. 70	1, 260 1, 100 1, 040 923 831 793 807 824 797	2 a.m	17. 45 18. 12 18. 45 18. 70 18. 80 18. 80	2, 800 10, 600 12, 800 13, 100 14, 300 14, 900 15, 500 15, 700 6, 770
12 m 2 p.m 4 6 8 10 12 p.m	7. 60 7. 45 7. 14 6. 96 7. 70 9. 40	1, 180 1, 110 986 916 1, 220 2, 320 4, 100	Apr. 29 6 a.m	6. 52 6. 34 6. 43 6. 38	764 708 736 720	10	9. 48 9. 35 12. 90	2, 380 2, 680 2, 880 2, 280 5, 910 17, 000
2 a.m	15. 30 16. 10 15. 56 14. 12 12. 38 10. 18 9. 40 8. 94 8. 58 8. 30	6, 840 9, 630 10, 900 10, 000 7, 740 5, 210 2, 960 2, 320 1, 960 1, 710 1, 530 1, 380	2 a.m	6. 12 6. 37 7. 12 7. 90 8. 70 9. 28	705 690 669 657 630 642 717 978 1,310 1,790 2,220 2,200	10	22. 50 25. 50 26. 28 26. 00 25. 60 22. 00 18. 90 16. 20	24, 600 32, 500 35, 100 34, 200 32, 800 23, 400 11, 100 8, 350

Note.—Daily means cannot be computed precisely from figures shown.

63. LITTLE MISSOURI RIVER NEAR MURFREESBORO, ARK.

Location.—Lat 34°03′, long 93°43′, in SE¼ sec. 13, T. 8 S., R. 26 W., near right bank on downstream side of pier of bridge on State Highway 27, 1.9 miles downstream from Muddy Fork, 2 miles southwest of Murfreesboro, 4.6 miles upstream from Prairie Creek and 11.4 miles downstream from Lake Greeson.

Drainage area.—380 sq mi.

Gage-height record.—Water-stage recorder graph. Datum of gage is 324.28 ft above mean sea level, datum of 1929.

Discharge record.—Stage-discharge relation defined by current-meter measurements.

Maxima.—April-May 1958: Discharge, 30,300 cfs 2 p.m. May 2 (gage height, 15.74 ft).

1928-31, 1937 to March 1958: Discharge, 120,000 cfs Mar. 30, 1945 (gage height, 19.84 ft) on basis of contracted-opening measurement of peak flow.

Maximum stage known, about 21 ft in April 1927, from information by Arkansas State Highway Department.

Remarks.—Flow regulated by Lake Greeson (see station No. 61).

Day	April	Мау	Day	April	Мау	Day	April	May
1	446 370	9, 620 18, 300	11	354 253	2,080 2,190	21	526 798	2,850 1,700
3	236	8,090	13	359	3,630	23	604	1,640
<u></u>	448 213	2,370 2,000	15	1,220 1,140	3, 630 3, 630	24	763 705	1,700 1,640
3	133	1,500	16	651	3,630	26	1,480	1,640
7	87	1,660	17	970	3,630	27	7, 130	992
3	234 406	2, 190 4, 190	18	960 532	3, 510 3, 630	28	2,020 1,920	880 1,010
10	496	2, 910	20	224	3, 510	30	2,050	812
		,			,	31		178
Monthly mea	n diseber	<u>'</u>	·	· · ·			924	3, 256
Runoff.	an dischar	ge			thousand	s of acre-feet	55	200.2

64. ANTOINE RIVER AT ANTOINE, ARK.

Location.—Lat 34°02'20", long 93°25'05", in NW¼ sec. 24, T. 8 S., R. 23 W., near right bank on downstream side of pier of bridge on State Highway 26 at Antoine, 1.6 miles downstream from Brushy Creek, 1.9 miles downstream from Suck Creek, and 8.5 miles upstream from mouth.

Drainage area.—181 sq mi.

Gage-height record.—Water-stage recorder graph. Datum of gage is 229.33 ft above mean sea level, datum of 1929.

Discharge record.—Stage discharge relation defined by current-meter measurements below 28,000 cfs.

Maxima.—April—May 1958: Discharge, 35,500 cfs 9:30 a.m. May 2 (gage height, 28.75 ft).

1950 to March 1958: Discharge, 16,600 cfs Apr. 3, 1957 (gage height, 24.00 ft).

Maximum stage known, 29.7 ft in 1905, from information by Arkansas State Highway Department (discharge 40,000 cfs).

Mean discharge, in cubic feet per second

Day	April	Мау	Day	April	Мау	Day	April	May
1	282 255 247 265 209 174 146 126 158 260	11, 500 20, 500 17, 100 2, 540 1, 260 855 634 476 744 1, 390	11	266 202 172 461 644 461 359 298 270 250	703 488 350 267 212 176 144 123 113 116	21	307 226 185 164 149 1, 800 7, 250 1, 940 2, 200 1, 480	94 77 64 56 47 42 36 34 30 27
					thousand	is of acre-feetinches	707 42, 06 4. 36	1, 943 119. 4 12. 37

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1958

								
Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
Apr. 25			Apr. 29—Con.			May 2-Con.		
10 p.m	3.96	144	6 a.m	12.78	2,830	8 p.m	25.84	23, 400
12 p.m	4.26	186	7 8	13.30 13.58	3, 090 3, 230	9	26. 37 26. 87	25, 500 27, 500
Apr. 26			8:30	13.61	3, 250 3, 220	11	27.07	28, 300
1 a.m	4. 52	223	9	13. 56 13. 24	3,220 3,060	12 p.m	26.96	27,900
2	4. 92	287	11	12.80	2,840	May 3	1	•
3 4	5. 50 5. 93	392 481	12 m 1 p.m	12.30 11.83	2,620 2,410	1 a.m	26.82	27,300
5	6.49	608	2	11.39	2,220	2	26.60	26,700
6 7	7. 20 7. 74	786 929	3	10.99 10.68	2,060 1,930	3 6	26. 54 26. 09	26, 200 24, 400
8	8. 14	1,040	5	10.42	1,830	7	25. 90	23,600
9	8. 68 9. 30	1, 200 1, 410	7 9	10.69 9.85	1,710 1,620	8	25. 67 25. 45	22, 700 21, 900
12 m	10.20	1,750	11	9.67	1,550	10	25. 10	20,600
1 p.m 2	10.55 10.75	1,880 1,960	12 p.m	9. 58	1,510	12 m 1 p.m	24.50 24.24	18,400 17,500
3	10.75	1,960	Apr. 30			2	23.85	16, 100
4 5	10.70 10.80	1, 940 1, 980		8.98	1 200	3 4	23. 40 22. 83	14,600 12,900
6	11. 09	2, 100	6 a.m 8	8.83	1,300 1,250	5	22, 12	11, 100
7 8	11.60	2,310	10	8.72	1,210	6	21.20	9, 450 8, 100
9	12.40 13.64	2,660 3,260	12 m 2 p.m	8. 60 8. 66	1, 180 1, 200	8	20.00 18.72	6,830
10	15.02	4,030	4	9. 33	1,420	9	17.58	5,800
11 12 p.m	16.65 18.28	5, 100 6, 430	8	10. 09 10. 52	1,710 1,870	11	16. 57 15. 80	5, 040 4, 520
	20,20	0,200	10 12 p.m	10.82	1,990	12 p.m	15. 20	4, 140
Арт. 27			12 p.m	11.24	2, 160	May 4		
1 a.m	19.75 20.62	7,850	May 1				14. 33	3 840
3	21.08	8, 780 9, 300	1 a.m	11.50	2,270	2 a.m	13.66	3, 640 3, 270
4:30	21. 23	9,490	3	12.03	2,270 2,490	6	13.08	2,980
5	21. 24 21. 22	9, 510 9, 480	4 5	12. 72 14. 40	2,800 3,680	8	12.60 12.17	2,750 2,560
6	21. 15	9, 380	16.	20.00	8, 100	12 m 4 p.m	11.77	2,380
7	$21.08 \\ 21.02$	9, 300 9, 220	8	23. 40 24. 85	14, 600 19, 700	8	11. 10 10. 56	2, 100 1, 880
9	20.94	9, 130	7 8 9	25.60	22,500	10 12 p.m	10.30	1,790
10	20. 82 20. 65	9,000 8,820	9:30 10	25. 67 25. 50	22,700 22,100	12 p.m	10.03	1, 680
12 m	20.45	8,600	[11	24.90	19,800	May 5		
1 p.m	20. 15 19. 75	8, 260 7, 850	12 m 1 p.m	24.30 23.85	17, 700 16, 100	2 a.m	9.72	1,550
3	19. 20	7,300	3	23. 28	14, 200	1 4 1	9. 52	1,470
4 5	18.48	6, 610 5, 930	5 7	22.77 22.11	12,800	6 8	9.32	1,400 1,340
6	17. 72 16. 76	5, 170	8	21.75	11, 100 10, 400	12 m	9. 16 8. 85	1,240
7	15. 98	4,640	9	21.36	9, 680	12 m 4 p.m	8.58	1, 150
8 9	15. 22 14. 70	4, 150 3, 840	11	20. 51 19. 85	8, 660 7, 950	8	8. 29 8. 09	1,060 999
10	14.25	3,600	· .	-51.55				
11 12 p.m	13. 85 13. 60	3,380 3,240	May 2			May 6		
Apr. 28			1 a.m	19. 14 18. 24	7, 240 6, 400	4 a.m 8	7.89 7.75	931 892
1		}	3	17.34	5, 610	12 m	7. 63	858
2 a.m	12.87 12.21	2,880	4	16.50	4,990	4 p.m	7.47 7.28	816 767
6	11.64	2, 570 2, 330	4:30 5	16. 17 16. 55	4,760 5,020	8 12 p.m	7. 13	728
8	11. 14	2, 120	6	21.50	9,900			
10 a.m 2 p.m	10. 72 10. 00	1,950 1,670	7 8	25. 57 27. 72	22, 400 31, 000	May 7		
4	9.74	1,570	9	28. 69 28. 75	35, 200 35, 500	4 a.m	6. 98 6. 83	691 655
8	9. 49 9. 22	1, 480 1, 380	9:30	28. 75	34, 300	12 m	6.74	634
10	9.00	1,310	11	27.67	30,800	4 p.m	6.64	610
12 p.m	8. 89	1,270	12 m 1 p.m	26. 77 25. 97	27, 100 23, 900	8 12 p.m	6. 51 6. 37	578 545
Apr. 29	1	[2	25.47	22,000	_		
1 a.m	9. 15	1,360	3 4	25. 25 25. 14	21, 200 20, 700	May 8		
2	10.00	1.670	5	25.07	20, 500	6 a.m	6. 19	502
3 4	10. 98 11. 73	2, 050 2, 370 2, 590	5:30	25. 04 25. 08	20, 400 20, 500	12 m 6 p.m	6. 08 5. 95	476 446
5 a.m	12.24	2, 590	7 p.m.	25. 25	20,500 21,200	12 p.m	5.81	412
			<u> </u>	!	<u> </u>	<u> </u>		

65. LITTLE MISSOURI RIVER NEAR BOUGHTON, ARK.

Location.—Lat 33°52'32", long 93°18'16", in NE¼ sec. 13, T. 10 S., R. 22 W., on downstream side of bridge on U.S. Highway 67, 1.5 miles northeast of Boughton, 5.9 miles downstream from Howard Creek, and 10.2 miles downstream from Antoine River.

Drainage area.—1,068 sq mi.

Gage-height record.—Water-stage recorder graph. Datum of gage is 182.13 ft above mean sea level, datum of 1929.

Discharge record.—Stage-discharge relation defined by current-meter measurements.

Maxima.—April-May 1958: Discharge, 66,000 cfs 7 p.m. May 3 (gage height, 24.22 ft).

1937 to March 1958: Discharge, 111,000 cfs Mar. 31, 1945 (gage height, 27.2 ft, from floodmark), from rating curve extended above 60,000 cfs.

Remarks.—Flow regulated by Lake Greeson (see station No. 61). Records furnished by Corps of Engineers.

Day	April	Мау	Day	April	May	Day	April	May
3	1, 290 1, 290 1, 110 1, 060 1, 000 812 615 512 570 750	21, 400 44, 100 61, 300 41, 300 18, 900 9, 680 5, 130 3, 620 3, 450 6, 040	11	975 905 735 928 3, 170 3, 310 1, 800 1, 540 1, 730 1, 290	7, 080 5, 060 3, 590 4, 220 4, 360 4, 220 4, 080 4, 010 4, 010 4, 080	21	928 1, 080 1, 170 885 1, 140 4, 710 13, 000 24, 800 18, 500 13, 400	4, 01 3, 52 2, 19 2, 06 1, 99 1, 92 1, 92 1, 24 1, 38 1, 08
Monthly me Runoff	an dischar	ge			thousand	ls of acre-feet	3, 500 208. 3	9, 11 560.

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1958

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
Apr. 25			Apr. 29—Con.			May 4		
12 p.m	9.04	2, 150	12 m 4 p.m	19. 97 19. 58	18, 200 16, 300	2 a.m	23. 78 23. 52	59, 700 55, 800
Apr. 26			8 12 p.m	19. 28 19. 00	15, 000 14, 100	6	23. 22 22. 98	51, 300 47, 700
2 a.m 4	10.50 11.39	3, 170 3, 790	Apr. 30		,	10 12 m	22. 70 22. 38	43, 500 38, 700
6 8	12.17 12.50	4, 340 4, 570	4 a.m	18. 72	13, 300	2 p.m	22. 14 21. 94	35, 200 32, 600
10 12 m	12.68 12.71	4,700 4,720	12 m 4 p.m	18. 36 18. 82	12, 300 13, 600	6	21. 75 21. 59	30, 500 29, 000
2 p.m	12.71 12.72 12.90	4, 720 4, 720 4, 850	8 12 p.m	19. 14 19. 21	14, 500 14, 800	12 p.m	21. 20	26, 200
6 8	13. 33 13. 95	5, 150 5, 580	May 1	10. 21	14,000	May 5		
10 12 p.m	14, 86 15, 90	6, 220 7, 360	4 a.m	19. 34	15, 300	4 a.m	20. 82 20. 44	23, 500 20, 900
Apr. 27	10.90	1, 500	8	19.90	17, 900	12 m 4 p.m	20. 44 20. 00 19. 57	18, 400 16, 30 0
-	10 MO		12 m 4 p.m	20. 43 20. 63	20, 800 22, 200	8	19.12	14, 500
2 a.m 4	16.70 17.30	8, 660 9, 840	8 12 p.m	21.35 22.15	27, 200 35, 300	12 p.m	18. 70	13, 200
6 8	17. 53 17. 67	10. 300 10. 700	May 2			May 6	10.01	11 000
10 12 m	17. 78 17. 95	10.900 11.300	4 a.m	22. 42	39, 300	4 a.m	18. 21 17. 74	11, 900 10, 800
2 p.m	18. 26 18. 70	12.000 13.200	8 12 m	22. 49 22. 48	40, 400 40, 200	12 m 4 p.m	17. 15 16. 57	9, 510 8, 43 0
6 8	19.30 20.00	15, 100 18, 400	2 p.m	22. 50 22. 75	40, 500 44, 200	8 12 p.m	16.00 15.35	7, 500 6, 640
10 12 p.m	20. 40 20. 74	20. 600 23, 000	8	23. 12 23. 42	49, 800 54, 300	May 7		<u> </u>
Apr. 28			10 12 p.m	23. 58 23. 60	56, 700 57, 000	4 a.m	14. 52	5, 980
2 a.m	20. 83	23, 600	May 3			8 12 m	13. 73 13. 10	5, 43 0 4, 990
6 8 .	20. 94 20. 97	24, 400 24, 600	4 a.m	23. 56	56, 400	4 p.m	12. 63 12. 22	4, 660 4, 370
10 12 m	21.05 21.11	25, 200 25, 600	8	23. 67 23. 78	58, 000 59, 700	12 p.m	11. 73	4, 030
2 p.m 4	21. 13 21. 13	25, 700 25, 700	12 m 2 p.m	23. 92 24. 05	61, 800 63, 800	May 8		
6 10	21. 10 20. 98	25, 500 24, 700	4 5	24. 15 24. 19	65, 200 65, 800	4 a.m	11.32 11.13	3, 740 3, 610
12 p.m	20.89	24, 000	6	24. 21 24. 22	65, 900 66, 000	12 m 8 p.m	11.07 10.98	3, 570 3, 510
Apr. 29			8	24. 21 24. 18	65, 900 65, 700	12 p.m	10.89	3, 440
4 a.m 8 a.m	20.68 20.30	22, 600 20, 000	10 12 p.m	24. 12 23. 98	64, 800 62, 700	1		[

Note.—Daily means cannot be computed precisely from figures shown.

66. OUACHITA RIVER AT CAMDEN, ARK.

Location.—Lat 33°35′49″, long 92°49′12″, in SE¼ sec. 14, T. 13 S., R. 17 W., on line between Ouachita and Calhoun Counties on downstream side of bridge on U.S. Highway 79 at Camden, 0.4 mile downstream from St. Louis Southwestern Railway bridge, 3½ miles downstream from Ecore Fabre Bayou, and 7½ miles upstream from Two Bayou Creek.

Drainage area.—5,391 sq mi.

Gage-height record.—Water-stage recorder graph. Datum of gage is 71.69 ft above mean sea level, datum of 1929, supplementary adjustment of 1941.

Discharge record.—Stage-discharge relation defined by current-meter measurements. Fall used as a factor.

Maxima.—April-May 1958: Discharge, 185,000 cfs May 5 (gage height, 43.87 ft 11 p.m. May 5).

1928 to March 1958: Discharge, 243,000 cfs Apr. 3, 1945 (gage height, 44.82 ft).

Flood of 1882 reached a stage of 46.0 ft, from information by Corps of Engineers.

Remarks.—For regulation see "Remarks" for station near Malvern and Little Missouri River near Murfreesboro, Ark. Records furnished by Corps of Engineers.

Day	April	May	Day	April	May	Day	April	Мау
	9, 810 8, 330 6, 840 5, 870 5, 800 5, 650 5, 200	74, 600 83, 900 106, 000 139, 000 181, 000 174, 000	11 12 13 14 15 16 17	3, 490 4, 430 4, 600 4, 050 4, 870 7, 670 11, 400	51, 500 43, 900 37, 700 31, 300 27, 300 23, 000 20, 300	21	6, 660 8, 250 8, 890 9, 030 7, 680 9, 110 17, 300	16, 40 15, 70 13, 90 12, 40 10, 40 9, 07 8, 87
0	4, 060 3, 960 3, 520	105, 000 105, 000 79, 900 63, 800	18 19 20	12, 500 10, 000 7, 490	18, 500 16, 900 16, 800	27 28 29 30 31	26, 200 47, 100 65, 700	8, 36 7, 12 6, 67 6, 68
Monthly me	an dischar	ge			thousand	is of acre-feet	11, 180 665. 4	49, 99 3, 07

Mean discharge, in cubic feet per second

67. SMACKOVER CREEK NEAR SMACKOVER, ARK.

Location.—Lat 33°22'40'', long 92°46'45'', in S½ sec. 32, T. 15 S., R. 16 W., on downstream side of bridge on State Highway 7, 0.1 mile downstream from Camp Creek, 3 miles west of Smackover and 23 miles above mouth.

Drainage area.—377 sq mi.

Gage-height record.—Water-stage recorder graph except Apr. 26-29. Datum of gage is 97.56 ft above mean sea level, datum of 1929.

Discharge record.—Stage-discharge relation defined by current-meter measurements below 11,000 cfs. Discharge for period of no gage-height record computed from graph based on floodmark and normal recession.

Maxima.—April-May 1958. Discharge 25,000 cfs about 12 m. Apr. 27 (gage height, 21.21 ft, from floodmark).

1938 to March 1958: Discharge, 16,500 cfs Apr. 3, 1945 (gage height, .8 ft).

Remarks.—Gage-height record and results of discharge measurements furnished by Corps of Engineers.

Mean discharge, in cubic feet per second

Day	April	May	Day	April	Мау	Day	April	Мау
1	647 519 403 326 281 242 209 179 165 174	12, 400 11, 200 7, 610 5, 100 4, 000 3, 160 2, 430 1, 930 1, 550 1, 750	11	195 206 187 194 295 387 341 253 190 172	1, 580 1, 340 940 680 391 255 206 179 1, 050 2, 820	21 22 23 24 25 26 27 28 29 30 31	187 213 179 147 347 6,680 23,300 16,400 10,700 10,200	3, 300 2, 680 1, 930 1, 340 720 272 195 172 180 197 158
Monthly me Runoff Runoff		_			thousand	s of acre-feetinches	2, 464 146. 6 7. 29	2, 313 142, 2 7, 07

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1958

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
Apr. 24			Apr. 29		_ " ' '	May 4		
12 p.m	4. 93	139	6 a.m		11,200 10,400	4 a.m	15. 62 15. 39	5, 680 5, 300
Apr. 25			6 p.m 12 p.m		10,000 9,720	12 m 4 p.m 8	15. 18 15. 04 14. 94	4,970 4,740 4,600
4 a.m 8	5. 16 5. 75	159 215	Apr. 30			12 p.m	14. 84	4, 460
12 m 4 p.m	6. 86 7. 62	338 437	8 a.m 12 m	17. 52	9, 720 9, 780	May 5		
8 12 p.m	8. 08 9. 36	503 722	6 p.m 12 p.m	17. 82 18. 16	10, 600 11, 700	6 a.m	14.65 14.50 14.35	4, 190 3, 980 3, 800
Apr. 26			May 1			12 p.m	14. 18	3, 600
4 a.m 8		1, 290 2, 860	4 a.m 8	18. 30 18. 36	12, 200 12, 400	May 6		
12 m 4 p.m		5, 160 8, 280	4 p.m 8 12 p.m	18. 43 18. 42 18. 38	12,600 12,600 12,400	6 a.m 12 m 6 p.m	14.00 13.78 13.56	3,390 3,150 2,920
8 12 p.m		12,700 18,800	May 2	10.00	12, 400	12 p.m	13. 38	2,740
Apr. 27			4 a.m	18.32	12, 200	May 7		
4 a.m 8		22,800 24,900	8 12 m 4 p.m	18. 21 18. 05 17. 86	11, 900 11, 400 10, 800	6 a.m 12 m	13. 22 13. 04 12. 88	2, 590 2, 430 2, 240
12 m 4 p.m	21. 21	25,000 24,400	8 12 p.m	17. 63 17. 37	10, 100 9, 360	6 p.m 12 p.m	12.74	2, 170
8 12 p.m		22, 800 21, 200	May 3	11.01	0,000	May 8		
Apr. 28			4 a.m	17. 12	8, 690	6 a.m 12 m	12. 59 12. 42 12. 26	2, 050 1, 920 1, 810
6 a.m 12 m		18, 800 16, 100	8 12 m 4 p.m	16.88 16.62 16.36	8, 110 7, 540 7, 010	6 p.m 12 p.m		1,710
6 p.m 12 p.m		14, 100 12, 500	8 12 p.m.	16. 12 15. 86	6, 580 6, 110			

68. MORO CREEK NEAR FORDYCE, ARK.

Location.—Lat 33°47′, long 92°20′, in NW1⁄4 sec. 3, T. 11 S., R. 12 W., on downstream side of bridge on State Highway 8, 1,100 ft upstream from Caney Creek, 4 miles southeast of Fordyce, and 12 miles upstream from White Water Creek.

Drainage area.—216 sq mi.

Gage-height record.—Water-stage recorder graph. Datum of gage is 160.63 ft above mean sea level, datum of 1929.

Discharge record.—Stage-discharge relation defined by current-meter measurements.

Maxima.—April—May 1958: Discharge, 26,800 cfs 4-5 p.m. May 2 (gage height, 16.47 ft).

1951 to March $1958\colon$ Discharge, $11{,}100$ cfs Apr. 5, 1957 (gage height, $14.35~\mathrm{ft}).$

Flood of January 1938 reached a stage of 15.1 ft according to Arkansas State Highway Department (discharge 15,800 cfs).

Day	April	May	Day	April	Мау	Day	April	May
1	423 23, 6 327 15, 5 234 5, 4 171 3, 2 132 2, 0 105 1, 4 82 1, 0 70 8	8, 330 23, 600 15, 500 5, 410 3, 220 2, 050 1, 470 1, 070 854 1, 320	11	63 68 68 79 302 356 379 448 530	68 794 68 750 79 645 302 463 356 240 379 138 448 90 530 688	21	321 246 307 362 558 1, 940 5, 520 6, 540 5, 760 3, 860	1, 020 874 680 459 203 101 65 49 40
Runoff					thousand	ds of acre-feetinches	1, 012 60. 24 5. 23	2, 336 143, 6 12, 47

Gate height, in feet, and discharge, in cubic feet per second, at indicated time, 1958

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
Apr. 24			Apr. 28—Con.			May 2—Con.		
12 p.m	7.48	376	4 p.m	13.23	6, 680	11 a.m	16.22	24, 500 25, 200
4 05			8 12 p.m	13.17	6, 470	12 m	16.30	25, 200
Apr. 25			12 p.m	13.13	6, 330	1 p.m	$16.36 \\ 16.41$	25, 800 26, 200
l a.m	7.50	379	Apr. 29			4	16.47	26, 800
}	7.60	395	-			5	16.47	26, 800 26, 800
3 4	7.71 7.86	414	4 a.m	13.11	6, 260	8	16.40	26, 200 25,800
3	8.18	441 500	8 12 m	13.10 13.04	6, 230 6, 040	9 12 p.m	$16.36 \\ 16.19$	24,300
3[8.41	546	4 p.m	12.91	5, 640	1	-0120	,
9	8.53	570	8 12 p.m	12.65	4,870	May 3		Ì
11 a.m l p.m	8.73 8.82	610 628	12 p.m	12.57	4,650	2 a.m	16.04	23 000
3	8.84	633	Apr. 30			4	15.87	23, 000 21, 500 19, 900
3	8.81	626] -]]	6	15.67	19, 900
[8.78	620	2 a.m	12.48	4, 400	8	15.46	18, 200 15, 000
3	8.76 8.73	616	4	12.38	4, 140	12 m	14.99 14.48	15,000
10	8.72	610 608	6	$12.30 \\ 12.18$	3, 950 3, 760	4 p.m	14.48	12,000 10,900
11	8.70	604	10 12 m	12.12	3, 520	8	14.02	9,890
2 p.m	8.73	610	2 p.m	12.10	3, 470	10 12 p.m	13.88	9, 260
4== 00			4	12.13	3, 540	12 p.m	13.59	8,030
Apr. 26			8	$12.17 \\ 12.22$	3, 640	May 4		
8.m	8.85	635	10	12.31	3, 760 3, 970	14249 4		l
2	9.06	680	10 12 p.m	12.40	4, 190	2 a.m	13.38	7, 220
}	9.28	733	J J			4	13.20	6, 570
5	9.66 9.88	843 922	May 1			8	13.05 12.91	6,070 5,640
/	10.24	1,090	1 8.m	12.43	4, 270	10	12.82	5, 370
3	10.50	1, 250	2	12.47	4,370	12 m	12.74	5, 130
?	10.72	1,420	3	12.50	4, 450	4 p.m	12.60	4,730
10	$10.92 \\ 11.12$	1, 580 1, 770	5	$12.56 \\ 12.60$	4, 620 4, 730	8	12.54 12.49	4,560 4,420
2 m	11.12	1,770	6	12.63	4, 730	10	12.42	4, 240
p.m	11.42	2, 160	7	12.68	4, 950	12 p.m	12.36	4,090
}	11.52	2,300	8	12.73	5, 100	-		
B	11.62 11.69	2, 470 2, 596	9	$12.79 \\ 12.86$	5, 280 5, 490	May 5		1
5	11.76	2, 730	11	12.95	5, 760	6a.m	12.17	3, 640
5	11.82	2,850	12 m	13.05	6,070	12 m	11.97	3, 180
[11.86	2,940	1 p.m	13.25	6, 750	6 p.m	11.78	2,770
3	11 .92 11 .95	3,070	3	13.40	7, 290 8, 070	12 p.m	11.61	2, 450
0	12.00	3, 140 3, 250	4	$13.60 \\ 13.89$	9, 310	May 6		
1	12.04	3, 340	5	14.15	10, 500	1,200		1
2 p.m	12.10	3, 470	6	14.42	11,800	6a.m	11.46	2, 210
Apr. 27			7	14.67	13, 100	12 m	11.32 11.20	2,020 1,870
Apr. zi			8	14.87 15.03	14, 300 15, 200	6 p.m 12 p.m	11.08	1,730
2 a.m	12.22	3, 760	10	15.15	16,000	1	11.00	1 2,.00
	12.38	4, 140	11	15.27	16, 800	May 7		1
3	12.61	4,760	12 p.m	15.35	17, 400	C	10.04	1 600
0	$12.80 \\ 12.96$	5, 310 5, 790	May 2			6 a.m 12 m	10.94 10.79	1,600 1,470
2 m	13.06	6, 100	14169 2			6 p.m	10.63	1,340
2 p.m	13.12	6, 300	1 a.m	15.42	18,000	12 p.m	10.49	1, 240
	13.14	6,370	2	15.49	18, 500	36-40		
0 2 p.m	$13.11 \\ 13.11$	6, 260 6, 260	3 4	15.57 15.62	19, 100 19, 500	May 8		
2 p.m	10,11	0,200	5	15.69	20, 100	6 a.m	10.35	1,150
Apr. 28			6	15.78	20,800	12 m	10.19	1,060
		0.000	7	15.90	21, 800	6 p.m	10.02	979
8.m	13.14 13.22	6, 370 6, 640	8	15.99 16.07	22, 600 23, 200	12 p.m	9.86	914
2 m	13.22	6,790	9 10 a.m	16.16	23, 200 24, 000			

69. SALINE RIVER AT BENTON, ARK.

Location.—Lat 34°34′05′′, long 92°36′40′′, in NE¼ sec. 9, T. 2 S., R. 15 W., on left bank three-quarters of a mile west of Benton and 3 miles downstream from confluence of North Fork and Alum Fork.

Drainage area.—569 sq mi.

Gage-height record.—Water-stage recorder graph. Datum of gage is 260.91 ft above mean sea level, datum of 1929.

Discharge record.—Stage-discharge relation defined by current meter measurements.

Maxima.—April-May 1958: Discharge, 28,400 cfs 9 a.m. May 3 (gage height, 21.40 ft).

1938 to March 1958: Discharge, 67,000 cfs Apr. 17, 1939 (gage height, about 26.1 ft, from stage relation curve).

Flood of April 1927 reached a stage of 30.5 ft, from information by Arkansas State Highway Department.

Day	April	Мау	Day	April	Мау	Day	April	Мау
1	772 684 2, 500 2, 660 1, 490 1, 100 864 722 638 722	6, 030 14, 600 24, 100 8, 720 8, 870 5, 080 2, 350 1, 520 1, 990 8, 160	11	677 590 510 583 980 873 726 621 570 628	3,750 2,000 1,290 942 737 600 495 409 377 401	21	3, 190 2, 380 1, 570 1, 150 932 2, 480 7, 820 5, 820 6, 730 4, 560	336 286 247 224 207 228 210 189 169
Monthly me Runoff Runoff	an dischar	ge				31s of acre-feetinches	1, 851 110. 2 3. 63	3, 058 188 6, 20

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1958

		! .			 	1		
Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
Apr. 25			Apr. 29—Con.			May 4		
12 p.m	4. 96	995	10 p.m 12 p.m	12. 10 11. 70	6, 710 6, 310	2 a.m	17. 60 16. 65	15, 000 13, 000
Apr. 26	5. 48	1, 280	Apr. 30			8 10	15.60 14.65 13.75	11, 100 9, 720 8, 570
4	5. 71 6. 25	1, 280 1, 420 1, 750	4 a.m	11.30 10.62	5, 920 5, 290	12 m 2 p.m	12. 92 12. 20	7, 590 6, 8 1 0
8	7. 10	2,360	12 m	9. 70	4.460	4 6	11.60 11.00	6, 210 5, 640
12 m	7. 7 <u>4</u> 8. 03	2, 820 3, 050	4 p.m	8. 90 8. 32	3, 780 3, 290	8	10. 52	5, 200
2 p.m	8. 10 8. 00	3, 110 3, 030	12 p.m	7. 86	2, 920	10 12 p.m	10. 20 10. 22	4, 910 4, 930
10 12 p.m.	7. 85 8. 06	2, 910 3, 080	May 1			May 5		,
Apr. 27		,	2 a.m	7. 69 7. 56	2, 790 2, 690	2 a.m	10.75	5, 400
2 a.m	8, 80	3, 700	6 8	7. 48 7. 54	2, 630 2, 680	6	11.40 12.20	6, 020 6, 810
4 6	10. 10 11. 50	4, 820 6, 120	10 12 m	8. 65 10. 50	3, 570 5, 180	8	13, 20 14, 12	7, 910 9, 030
8	12.60	7, 240	2 p.m	12.40	7,020	12 m 2 p.m	14, 95 15, 44	10, 100 10, 800
10 12 m	13. 34 13. 94	8, 080 8, 800	6	13. 70 14. 49	8, 510 9, 390	4	15.65	11, 200
2 p.m	14.35 14.65	9, 320 9, 720	8	14.98 15.35	10, 200 10, 700	8	15. 66 15. 44	11, 200 10, 800
6 8	14. 76 14. 80	9,860	12 p.m	15. 64	11, 100	10 12 p.m	14.90 14.20	10, 100 9, 130
10 12 p.m	14. 80 14. 63	9, 920 9, 920 9, 690	May 2			May 6		,,,,,,,
Apr. 28			2 a.m	15. 80 15. 94	11, 400 11, 600	2 a.m	13, 28 12, 40	8, 010 7, 020
2 a.m	14. 24	9, 180	8	16.04 16.28	11,800 12,200	6	11.62 10.90	6, 230 5, 540
4 6	13.60 12.80	8, 390 7, 460	12 m	16.76	13, 200 14, 700	8 12 m	9.78	4, 530
8	12.00	6,610	2 p.m4	17. 45 18. 16	16, 400	2 p.m	9.40 9.08	4, 200 3, 930
10 12 m	11. 20 10. 58	5, 830 5, 250	6 8	18. 50 18. 96	17,300 18,700	8	8. 76 8. 50	3, 660 3, 440
2 p.m	10.02 9.59	4, 750 4, 370	10 12 p.m	19. 52 20. 00	20, 400 22, 000	10	8. 25	3, 230
8 12 p.m	8. 90 8. 40	3, 780 3, 360	_	20.00	22, 000	12 p.m	8.02	3,050
	0.40	3,300	May 3			May 7		
Apr. 29			2 a.m 4	20.40 20.70	23,600 24,900	4 a.m	7. 66 7. 32	2, 760 2, 510
2 a.m 4	8, 20 8, 04	3, 190 3, 060	6 8	21. 00 21. 32	26, 400 28, 000	12 m 4 p.m	7. 05 6. 80	2,320 2,120
6 8	9. 10 11. 25	3, 950	9	21. 40	28, 400 28, 300	8	6, 60 6, 40	1, 980 1, 820
10	13.00	5, 880 7, 680	10 12 m	21. 38 21. 15	27, 100	12 p.m	0.40	1,020
12 m 2 p.m	14. 20 14. 88	9, 130 10, 000	2 p.m	20. 80 20. 50	25, 400 24, 000	May 8		
2:30	14. 95 14. 80	10, 100 9, 920	8	20. 10 19. 56	22, 400 20, 500	6 a.m 12 m	6.16 5.92	1,650 1,490
6	13.95	8,810	10	19.02	18, 800	6 p.m	5. 73	1,370
8 p.m	12.90	7, 570	12 p.m	18.34	16, 900	12 p.m	5. 60	1, 290

70. SALINE RIVER AND GAMBLE CREEK NEAR SHERIDAN, ARK.

Location.—Lat 34°06'40'', long 92°24'10'', in sec. 15, T. 7 S., R. 13 W., on down-stream side of bridge on U.S. Highway 167, 1 mile upstream from Gamble Creek, 1.6 miles downstream from Lost Creek, 6.4 miles upstream from Hurricane Creek, and 13½ miles south of Sheridan.

Drainage area.—1,129 sq mi.

Gage-height record.—Water-stage recorder graph. Datum of gage is 152.86 ft above mean sea level, datum of 1929.

Discharge record.—Stage-discharge relation defined by current-meter measurements.

Maxima.—April-May 1958: Discharge, 48,000 cfs 10 p.m. May 3 (gage height, 18.97 ft).

1938 to March 1958; Discharge, 70,000 cfs Jan. 24, 1938 (gage height, 21.0 ft).

Remarks.—Gage-height record and results of discharge measurements furnished by Corps of Engineers.

Day	April	Мау	Day	April	Мау	Day	April	May
1	3, 560 2, 970 2, 310 1, 700 1, 680 2, 100 2, 460 2, 550 2, 000 1, 430	23, 800 39, 000 45, 600 43, 800 36, 900 22, 700 12, 100 9, 460 8, 700 7, 490	11	1, 130 1, 050 1, 030 1, 090 1, 360 1, 550 1, 660 1, 670 1, 480 1, 230	5, 960 5, 180 6, 140 7, 080 6, 000 4, 460 3, 200 1, 920 1, 300 1, 200	21 22 23 24 25 26 27 28 29 30 31	1, 360 1, 820 2, 400 2, 880 3, 400 4, 250 5, 840 11, 400 12, 900 10, 800	1, 060 943 823 673 545 463 405 374 366 337 302
Monthly me Runoff Runoff	an dischar	ge			thousand	ls of acre-feetinches	3, 102 184. 6 3. 07	9, 622 591. 6 9. 83

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1958

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
Apr. 20			Apr. 28			May 4		
12 p.m	8. 53	1, 210	2 a.m	15.06	8, 070	4 a.m	18. 92	46, 600
Apr. 21	-	-,	4	15. 24	8,900	8	18. 85	45, 400
_			8	15. 41 15. 55	9, 750 10, 500	4 p.m	18. 65 18. 57	42, 200 41, 000
4 a.m 12 m	8. 77 9. 09	1,270 1,350	10 a.m 2 p.m	15. 69 15. 88	11,300 12,500	8 12 p.m	18. 50	39, 900
4 p.m	9.30	1,400	4	15.94	12, 900 13, 300	May 5		
8 12 p.m	9. 57 9. 87	1,470 1,550	8	16.00 16.01	13, 300 13, 400	4 a.m	18.49	39, 800
Apr. 22			12 p.m	16.08	13, 900	8	18. 44 18. 35	39, 000 37, 600
-	10.00	1 410	Apr. 29			12 m 4 p.m	18. 23	36, 000
4 a.m 8	10.08 10.36	1, 610 1, 700	120			8 12 p.m	18. 05 17. 83	33, 600 31, 000
12 m 8 n m	10. 62 11. 10	1,800 2,040	8 a.m 4 p.m	16.00 15.87	13, 300 12, 500	1	11.00	01,000
8 p.m 12 p.m	11.30	2, 140	12 p.m	15. 75	11,700	May 6		
Apr. 23			Apr. 30			4 a.m 8	17. 58 17. 29	28, 100 24, 900
4 a.m	11. 48	2, 230	-			12 m	17.04	22,400
8	11.64	2,320	8 a.m	15. 62 15. 56	10,900	4 p.m	16. 79 16. 54	19, 900 17, 600
12 m 4 p.m	11. 79 11. 93	2, 400 2, 490	6 p.m 12 p.m	15.58	10, 400 10, 700	8 12 p.m	16. 31	15, 600
8 12 p.m	12. 05 12. 18	2, 560 2, 640	12 p.m	15. 57	10,600	May 7		
	12.10	2,010	May 1				16. 09	13, 900
Apr. 24			4.0 m	15 60	10, 800	4 a.m 8	15.92	12,800
4 a.m 8	12. 31 12. 44	2, 720 2, 810	4 a.m	15. 60 15. 76	11,800	12 m 4 p.m	15. 78 15. 64	11, 900 11, 000
12 m	12. 55	2,880	8	16.00 16.35	13,300 15,900	8 12 p.m	15. 54	10, 400
4 p.m 8	12. 67 12. 77	2, 960 3, 030	12 m 2 p.m	16.92	21 200	i	15. 47	10,000
12 p.m	12.90	3,120	2 p.m	17. 52 18. 02	27, 400 33, 300 37, 200	May 8		
Apr. 25			6 8	18.32 18.45	37, 200 39, 200	6 a.m	15.39	9, 650 9, 350
4 a.m	13.06	3, 240 3, 330	10	18.48	39,600	12 m	15. 33 15. 30	9,350 9,200
8 12 m	13.17 13.26	3,330 3,400	12 p.m	18. 47	39, 400	6 p.m 12 p.m	15. 29	9, 150
4 p.m	13.34	3,480	May 2			May 9		
8 12 p.m.	13. 40 13. 50	3, 530 3, 660	_			6 a.m	15. 26	9,000
Apr. 26			2 a.m	18. 41 18. 35	38, 600 37, 600	12 m	15. 19	8,660
4 a.m	13. 64	3,840	6 8	18.30 18.31	36, 900	6 p.m 12 p.m	15. 14 15. 10	8, 430 8, 250
8	13. 76	4,040	12 m	18.37	37, 000 38, 000	May 10		
12 m 4 p.m	13. 84 13. 94	4, 180 4, 380	4 p.m 8	18. 47 18. 58	39, 400 41, 100	-		
8	14.08	4,700	12 p.m	18.66	42,300	6 a.m 12 m	15. 02 14. 93	7, 890 7, 520
12 p.m	14. 23	5,090	May 3			6 p.m 12 p.m	14.83	7, 520 7, 120 6, 640
Apr. 27							14. 71	6, 640
4 a.m	14.33 14.37	5,390 5,510	4 a.m	18. 73 18. 81	43, 400 44, 800	May 11		
12 m 4 p.m	14. 44	5, 720	12 m 6 p.m	18.86	45, 600 47, 400	6 a.m	14. 61	6, 280
4 p.m 8	14. 50 14. 62	5, 900 6, 320	6 p.m 10	18. 95 18. 97	47, 400 48, 000	12 m 6 p.m	14. 50 14. 41	5, 900 5, 630
12 p.m		7, 320	12 p.m	18.96	47, 700	12 p.m	14.33	5,390

71. HURRICANE CREEK NEAR SHERIDAN, ARK.

Location.—Lat 34°13'30", long 92°21'45", in sec. 1, T. 6 S., R. 13 W., on down-stream side of bridge on State Highway 35, 5¾ miles southeast of Sheridan, and 11 miles upstream from mouth.

Drainage area.—270 sq mi.

Gage-height record.—Water-stage recorder graph. Datum of gage is 180.10 ft above mean sea level, datum of 1929.

Discharge record.—Stage-discharge relation defined by current-meter measurements.

Maxima.—April-May 1958: Discharge, 16,000 cfs 8 a.m. May 3 (gage height, 14.48 ft).

1938-40, 1946 to March 1958: Gage height, 15.4 ft Feb. 13, 1950.

Remarks.—Gage-height record and results of discharge measurements furnished by Corps of Engineers.

Day	April	Мау	Day	April	Мау	Day	April	Мау
1	838 530 386 334 525 787 498 254 185	6, 220 11, 600 13, 800 7, 490 4, 310 2, 640 2, 140 1, 840 1, 330 1, 280	11	156 153 144 202 436 717 550 308 212 208	1, 580 1, 860 1, 900 1, 290 471 262 190 148 132 179	21	504 1, 010 1, 150 731 476 1, 620 7, 280 5, 790 3, 300 2, 500	224 188 122 88 68 56 48 40 36 32
Monthly me Runoff Runoff					thousand	s of acre-feetinches	1, 064 63. 34 4. 40	1, 987 122. 2 8. 48

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1958

	<u> </u>		• ,		•			
Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
Apr. 24		-	Apr. 29—Con.			May 4		
12 p.m	6. 63	460	4 p.m	11.66	3, 020	2 a.m	13. 25	8, 65
Apr. 25			8 12 p,m	11. 58 11. 52	2, 860 2, 740	6	13. 14 13. 07 13. C2	8, 130 7, 820 7, 590
a.m	6. 43 6. 67	423 469	Apr. 30			10	13. 01	7, 540
2 m p.m	6.88	513		11 40	0.040	12 m 2 p.m	13.00 12.98	7, 410
2 p.m	7.00	538	4 a,m	11. 46 11. 38	2,640 2,520	4	12. 95	7, 28
Apr. 26			12 m	11.32	2, 430	8	12. 90 12. 84	7, 050 6, 810
_			6 p.m 12 p.m	11. 31 11. 32	2, 420 2, 430	10	12.75	6, 450
a.m	7. 36 8. 00	624 790	12 p.m	11.02	2, 100	12 p.m	12.66	6,090
	9. 43	1, 270	May 1			May 5		1
2 m	10. 46 10. 74	1,750 1,930	4 a.m	11. 33	2, 440	2 a,m	12, 56	5, 710
p.m	11.09	2, 190	6	11. 72	3, 150	6	12.36	5,010
0 2 p.m	11. 28 11. 43	2,380	8	12. 01 12. 90	3, 930 7, 050	10 2 p.m	12. 17 12. 01	4, 410 3, 930
-	11, 40	2,600	10 12 m	13. 32	9,000	4	11.93	3, 69
Apr. 27			2 p.m	13.32	9,000	6	11.87	3, 520 3, 400
a.m	11. 73	3, 180	8	13. 20 13. 11	8, 400 8, 000	8	11.82 11.75	3, 200
ļ	12.07	4, 110	10	13.04	7,680	12 p.m	11. 70	3, 100
 	12. 43 12. 77	5, 260 6, 530	12 p.m	12. 94	7, 230	May 6		
0	13.07	7,820	May 2			-	11 61	9.090
2 m p.m	13. 28 13. 40	8,800 9,400		10.00	0.770	4 a.m 8	11.61 11.52	2, 920 2, 740
	13. 42	9,500	2 a.m	12. 83 12. 73	6, 770 6, 370	12 m	11.43	2,600
	13. 41 13. 35	9, 450 9, 150	6	12.85	6,850	4 p.m 8	11. 35 11. 29	2, 480 2, 390
.00	13. 27	8,750	8	13. 13 13. 62	8, 080 10, 600	12 p.m	11. 22	2, 320
2 p.m	13. 15	8, 180	12 m	14.03	12,900	May 7		ļ
Apr. 28			2 p.m	14. 20 14. 35	13, 900 15, 000	-		
a.m	13.06	7,770	6	14.46	15,700	6 a.m 12 m	11. 12 11. 02	2, 220 2, 140
	12, 94	7, 230	8	14. 47 14. 46	15, 800 15, 700	6 p.m	10.93	2,060
	12.82 12.70	6, 730 6, 250	12 p.m	14, 42	15, 400	12 p.m	10.83	1,99
0	12.62	5, 930				May 8		
2 m 2 p.m	12. 52 12. 45	5, 570 5, 320	May 3			6 a,m	10.73	1,920
ļ	12. 35	4, 980	2 a.m	14, 42	15, 400	12 m	10.62	1,840
0	12. 20 12. 13	4,500	6	14.47	15,800 16,000	6 p.m	10. 48 10. 29	1,760 1,640
2 p.m	12.13	4, 290 4, 140	8	14.48 14.44	15,600	12 p.m	10.28	1,010
Apr. 29			2 p.m	14, 24	14, 200	May 9		1
лрт. гд			4 6	14.08 13.88	13, 200 12, 000	6 a.m	9. 99	1,500
a.m	11. 97	3,810	8	13. 72	11, 100	12 m	9. 50	1,300
3 l2 m	11.84 11.74	3, 450 3, 200	10 12 p.m	13. 53 13. 36	10, 100 9, 200	6 p.m 12 p.m	9.07 9.00	1, 150 1, 120
	1	0,200	P	10.00	1 5,200	P	1 5.50	-,,

72. SALINE RIVER NEAR RYE, ARK.

Location.—Lat 33°42′, long 92°02′, on line between secs. 3 and 4, T. 12 S., R. 9 W., near left bank on downstream side of pier of bridge on State Highway 15, 4 miles southwest of Rye and 5 miles upstream from Hudgins Creek.

Drainage area.—2,062 sq mi.

Gage-height record.—Water-stage recorder graph. Altitude of gage is 95 ft (by barometer).

Discharge record.—Stage-discharge relation defined by current-meter measurements.

Maxima.—April—May 1958: Discharge, 70,500 cfs 2 p.m. May 3 (gage height, 30.31 ft).

1937 to March 1958: Discharge, 57,400 cfs Jan. 31, 1949 (gage height, 29.19 ft).

Maximum stage known, 30.5 ft in April 1927 (about 73,000 cfs).

Day	April	May	Day	April	Мау	Day	April	Мау
1	6, 250 6, 790 7, 090 7, 050 6, 630 5, 840 4, 750 3, 680 2, 910	25, 800 51, 700 69, 500 68, 500 65, 900 59, 600 51, 700 42, 900 32, 800 25, 500	11	2, 850 2, 560 1, 990 1, 600 1, 950 2, 590 2, 840 2, 910 2, 800 2, 640	20, 200 17, 100 15, 000 13, 200 11, 400 9, 850 8, 910 8, 350 9, 250 11, 500	21	2, 520 2, 470 2, 650 2, 860 3, 840 7, 080 12, 200 15, 200 17, 200 19, 000	11, 700 10, 500 8, 960 6, 580 3, 590 1, 630 1, 090 881 737 641 578
Monthly me Runoff Runoff					_thousand	ls of acre-feet inches	5, 460 324, 9 2, 95	21, 470 1, 320 12, 00

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1958

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
Apr. 24			May 1			May 7		
12 p.m Apr. 25	12. 88 13. 04	2, 960 3, 050	2 a.m 4	24. 64 24. 74 24. 99 25. 25 25. 44	20, 900 21, 400 22, 800 24, 400 25, 600	6 a.m 12 m 6 p.m 12 p.m	28. 79 28. 60 28. 39 28. 19	53, 700 51, 800 49, 700 47, 700
4 6 8	13. 24 13. 53 13. 85	3, 160 3, 320 3, 400	4 6 8	25. 72 25. 97 26. 23	27, 400	May 8	27. 96	45, 400
10 12 m 2 p.m	14. 18 14. 48 14. 80 15. 09	3, 680 3, 850 4, 040 4, 210	10 12 p.m	26. 53 26. 85	31, 000 33, 300 35, 800	12 m 6 p.m 12 p.m	27. 70 27. 41 27. 09	43, 100 40, 500 37, 800
8 12 p.m	15. 55 15. 92	4, 510 4, 750	May 2	AP 12	00.000	May 9		
Apr. 26	10.00	·	2 a.m 4 6 10	27. 15 27. 44 27. 70 28. 35	38, 300 40, 800 43, 100 49, 300	6 a.m 12 m 6 p.m	26. 77 26. 44 26. 11	35, 200 32, 600 30, 100
2 a.m	16. 20 16. 51 16. 95 17. 46	4, 930 5, 150 5, 460 5, 840	12 m 2 p.m 4	28. 65 28. 91 29. 18	52, 300 54, 900 57, 800 60, 300	12 p.m	25. 88	28, 500
10 12 m 2 p.m 4	18. 05 18. 63 19. 20 19. 82 20. 40	5, 840 6, 310 6, 820 7, 370 8, 030 8, 710	6 8 10 12 p.m	29. 41 29. 60 29. 76 29. 90	60, 300 62, 400 64, 200 65, 700	6 a.m 12 m 6 p.m 12 p.m	25. 65 25. 44 25. 19 24. 94	26, 900 25, 600 24, 000 22, 500
8 10 12 p.m	20. 82 21. 12 21. 37	8, 710 9, 250 9, 670 10, 100	May 3	30.08	67, 800	May 11		
Apr. 27	21. 63	10, 500	6 8 10	30. 14 30. 20 30. 26 30. 28	68, 500 69, 200 69, 900 70, 200	6 a.m 12 m 6 p.m 12 p.m	24. 70 24. 47 24. 25 24. 08	21, 200 20, 000 19, 000 18, 300
4 8 10	21. 85 22. 18 22. 30	11,000 11,800 12,100	12 m 2 p.m 4	30. 30 30. 31 30. 30	70, 400 70, 500 70, 400	May 12	22.00	15,000
12 m 4 p.m 6 8 10	22. 40 22. 60 22. 68 22. 77 22. 85	12, 300 12, 900 13, 100 13, 400 13, 600	6 8 10 12 p.m	30, 29 30, 27 30, 24 30, 21	70, 300 70, 000 69, 700 69, 300	6 a.m	23. 92 23. 78 23. 65 23. 52	17, 600 17, 000 16, 500 16, 000
12 p.m	22. 92	13, 900	May 4			May 13		
6 a.m	23. 13 23. 33 23. 48 23. 62	14, 600 15, 300 15, 800 16, 400	6 a.m 12 m 6 p.m 12 p.m	30, 14 30, 14 30, 12 30, 12	68, 500 68, 500 68, 200 68, 200	6 a.m 12 m 6 p.m 12 p.m	23. 39 23. 26 23. 12 22. 99	15, 500 15, 000 14, 500 14, 100
Apr. 29		-,	May 5			May 14		
6 a.m 12 m 6 p.m 12 p.m	23. 73 23. 83 23. 93 24. 01	16, 800 17, 200 17, 600 18, 000	6 a.m 12 m 6 p.m 12 p.m	30, 02 29, 94 29, 80 29, 68	67, 000 66, 100 64, 600 63, 300	6 a.m 12 m 6 p.m 12 p.m	22. 86 22. 70 22. 53 22. 37	13, 700 13, 200 12, 700 12, 200
Apr. 30		'	May 6			May 15		
6 a.m	24. 12 24. 20 24. 38 24. 57	18, 400 18, 800 19, 600 20, 600	6 a.m 12 m 6 p.m 12 p.m	29. 53 29. 37 29. 17 28. 97	61, 600 59, 900 57, 700 55, 500	6 a.m 12 m 6 p.m 12 p.m	22. 20 22. 01 21. 82 21. 64	11, 800 11, 300 10, 900 10, 600

73. BAYOU BARTHOLOMEW NEAR STAR CITY, ARK.

Location.—Lat 33°57'40'', long 91°47'05'', in SW¼ sec. 1, T. 9 S., R. 7 W., on downstream side of bridge on State Highway 11, 3.7 miles east of Star City, and 10.7 miles upstream from Deep Bayou.

Drainage area.—215 sq mi.

Gage-height record.—Water-stage recorder graph. Datum of gage is 153.25 ft above mean sea level, datum of 1929, supplementary adjustment of 1941.

Discharge record.—Stage-discharge relation defined by current-meter measurements.

Maxima.—April-May 1958: Discharge, 4,000 cfs 10 p.m. May 2 (gage height, 26.29 ft).

1941 to March $1958\colon$ Discharge, $2{,}860$ cfs May 18, 1953 (gage height, $23.97\;\mathrm{ft}).$

Remarks.—Gage-height record and results of discharge measurements furnished by Corps of Engineers.

Mean discharge, in cubic feet per second

Day	April	May	Day	April	May	Day	April	May
1	582 565 541 512 480 442 404 362 312 266	3, 070 3, 900 3, 950 3, 860 3, 800 3, 640 3, 500 3, 380 3, 240 3, 210	11	241 226 217 211 213 214 230 243 256 280	3, 080 2, 940 2, 800 2, 630 2, 480 2, 330 2, 170 2, 000 1, 980 1, 950	21	301 316 327 322 326 510 1, 020 1, 360 1, 720 2, 060	1, 820 1, 670 1, 510 1, 350 1, 220 1, 080 960 850 750 670
D					thousand	ls of acre-feet inches_	502 29. 87 2. 60	2, 335 143. 6 12. 52

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1958

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
Apr. 25			4			36 0		
12 p.m	11. 98	340	Apr. 30			May 3		
•	11.00	010	4 a.m	21.00	1, 890	6 a.m	26.27	3, 990
Apr. 26			8	21.11	1,920	12 m	26.24	3,950
4 a m	12. 21	365	12 m	21.40	2,000	6 p.m	26. 22 26. 19	3, 900 3, 870
4 a.m 8	12. 21	416	4 p.m	21. 97 22. 32	2, 170 2, 280	12 p.m	20. 19	3,010
12 m	13. 24	481	12 p.m.	22.68	2, 390	May 4		
4 p.m	13. 95	568	-		_, .			
8	14.74	674	May 1		ļ	6 a.m	26.15 26.20	3,820
12 p.m	15, 42	769	2 a.m	22.84	2,450	12 m 6 p.m	26. 20	3, 880 3, 880
Apr. 27			6	23. 20	2, 570	12 p.m.	26. 21	3,890
			8	23.70	2,750	^		ĺ
4 a.m	16.07	866	10	24. 17	2, 950	May 5		
8 12 m	16. 58 17. 07	947 1,030	12 m 2 p.m	24. 58 24. 80	3, 130 3, 240	12 m	26, 14	3, 810
8 p.m.	17.88	1,170	4	25.05	3, 360	12 p.m	26.06	3,740
12 p.m	18. 18	1, 230	6	25. 38	3, 530	-		.,
4 40			8	25. 57	3, 620	May 6		
Apr. 28		1	10 12 p.m	25. 68 25. 76	3, 680 3, 720	12 m	25, 98	3,640
4 a.m.	18.41	1, 280	12 p.m	29. 70	3, 120	12 p.m	25. 90	3, 550
12 m	18, 81	1,360	May 2			_ •	20.00	5,000
4 p.m	19.00	1,400				May 7		
8 12 p.m	19. 24 19. 56	1,450 1,530	2 a.m	25. 81 25. 87	3, 740 3, 780	12 m	25, 83	3, 500
12 p.m	19. 50	1, 550	10	26. 10	3, 900	12 p.m.	25. 76	3, 430
Apr. 29			12 m	26.14	3,920	12 p.m.:	200	0, 200
			2 p.m	26. 21	3, 970	May 8		
4 a.m	19.83 20.40	1,590	4	26. 24	3, 980	10 m	25. 68	3, 380
12 m		1, 730 1, 790	6	26. 27	4,000	12 m 12 p.m	25. 62	3, 320
4 p.m	20.76	1,820	10	26. 29	4,000	12 p.m.	20.02	3,020
12 p.m	20.89	1,860	12 p.m	26. 28	4,000			

74. BAYOU BARTHOLOMEW NEAR McGEHEE, ARK.

Location.—Lat 33°37′40′′, long 91°26′45′′, in W½ sec. 30, T. 12S., R. 3 W., near center of stream on downstream side of pier of bridge on State Highway 4, 2.7 miles west of McGehee, and 17.5 miles downstream from Ables Creek.

Drainage area.—592 sq mi.

Gage-height record.—Water-stage recorder graph. Datum of gage is 121.48 ft above mean sea level, datum of 1929, supplementary adjustment of 1941.

Discharge record.—Stage-discharge relation defined by current-meter measurements.

Maxima.—April—May 1958: Discharge, 6,870 cfs 4-8 a.m. May 11 (gage height, 24.49 ft).

1938 to March $1958\,;$ Discharge, $5{,}700$ cfs May 25, 1953 (gage height, $22.5~\mathrm{ft}).$

Flood of May 11, 1958 was the highest known since at least 1930.

Remarks.—Gage-height and discharge measurements records furnished by Corps of Engineers.

Day	April	May	Day	April	May	Day	April	May
1	1, 150 1, 180 1, 170 1, 150 1, 120 1, 070 1, 030 982 928 876	3, 550 4, 500 5, 160 5, 680 6, 180 6, 480 6, 640 6, 700 6, 760 6, 840	11 12 12 13 14 15 16 17 17 18 19 20 20 1	831 784 732 687 654 602 558 516 485 452	6, 870 6, 850 6, 800 6, 700 6, 560 6, 420 6, 280 6, 130 6, 110 6, 240	21	422 400 406 426 466 681 1, 160 1, 680 2, 270 2, 830	6, 160 6, 060 5, 960 5, 920 5, 860 5, 760 5, 620 5, 440 5, 220 4, 980 4, 700
Monthly me Runoff Runoff					_thousand	ls of acre-feet inches	923 54, 94 1, 74	5, 972 367. 2 11. 63

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1958

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
Apr. 25			May 1—Con.			May 7		
12 p.m	6. 92	489	12 m	17.86	3, 480	4 a.m	24.10	6,600
Apr. 26			2 p.m 4 8	18. 02 18. 50 18. 94	3, 550 3, 750 3, 940	12 m 4 p.m 12 p.m	24. 16 24. 18 24. 22	6, 640 6, 660 6, 680
4 a.m 8 12 m	7. 20 7. 67 8. 10	532 607 678	12 p.m	19.30	4, 090	May 8		,
4 p.m. 8. 12 p.m.	8. 52 8. 90 9. 28	754 822 896	4 a.m	19.70 19.95	4, 270 4, 380	12 m 12 p.m	24. 25 24. 28	6, 700 6, 7 3 0
Apr. 27	0. 20		12 m 4 p.m	20. 20 20. 50	4. 500 4, 640	May 9		
4 a.m	9.88	1,020	8 12 p.m	20. 74 20. 96	4, 760 4, 860	12 m 12 p.m	24. 30 24. 40	6, 740 6, 810
8 12 m 8 p.m	10.14 10.50 11.18	1, 080 1, 160 1, 320	May 3			May 10		
12 p.m	11. 53	1,410	4 a.m	21. 18 21. 37	4, 970 5, 060	12 m 12 p.m	24. 46 24. 47	6, 850 6, 860
Apr. 28	11 00	1 700	12 m	21. 58 21. 76	5, 170 5, 260	May 11		
4 a.m 8 12 m	11. 90 12. 24 12. 52 12. 90	1,500 1,590 1,670 1,770	8 12 p.m May 4	21. 92 22. 08	5, 340 5, 420	4 a.m 8 12 m	24. 49 24. 49 24. 48	6, 870 6, 870 6, 870
4 p.m 8	13. 25 13. 60	1, 880 1, 980	4 a.m	22. 20	5, 490	12 p.m	24. 47	6, 860
Apr. 29			8 12 m 4 p.m	22. 34 22. 54 22. 72	5, 570 5, 680 5, 780	May 12	24. 46	6, 850
4 a.m 8 12 m	14.00 14.22 14.54	2, 100 2, 170 2, 270	8. 12 p.m.	22. 87 23. 04	5, 860 5, 950	12 p.m May 13	24. 46	6, 850
4 p.m 8	14.82 15.08	2, 370 2, 460	May 5		2 050	12 m	24. 47	6, 790
12 p.m	15. 34	2, 540	4 a.m 8 12 m	23. 20 23. 34 23. 44	6, 050 6, 130 6, 190	12 p.m May 14	24.44	6, 770
8 a.m 12 m	15. 87 16. 10	2, 740 2, 820	8 p.m 12 p.m	23. 64 23. 72	6, 310 6, 360	12 m 12 p.m	24. 41 24. 37	6, 680 6, 650
8 p.m 12 p.m	16.66 16.92	3, 020 3, 120	May 6		, , ,	May 15		
May 1			4 a.m 8 12 m	23.80 23.86 23.92	6, 410 6, 450 6, 480	12 m 12 p.m	24. 32 24. 26	6, 540 6, 510
4 a.m 8 a m	17. 20 17. 46	3, 230 3, 320	4 p.m 12 p.m	23. 97 24. 06	6, 510 6, 570			

75. BAYOU BARTHOLOMEW AT WILMOT, ARK.

Location.—Lat 33°04'10", long 91°34'40" in SW¼ sec. 1, T. 19 S., R. 5 W., on downstream side of bridge on State Highway 52, 0.9 mile northwest of Wilmot and 19.7 miles upstream from Overflow Creek.

Drainage area.—1,170 sq. mi.

Gage-height record.—Water-stage recorder graph. Datum of gage is 85.17 ft above mean sea level, datum of 1929, supplementary adjustment of 1941.

Discharge record.—Stage-discharge relation defined by current-meter measurements.

Maxima.—April-May 1958: Discharge, 8,000 cfs May 23 (gage height, 26.16 ft); 1925 to March 1958: Discharge, 7,100 cfs Jan. 12, 1932 (gage height, 26.3 ft).

Remarks.—Gage-height record and results of discharge measurements furnished by Corps of Engineers.

Mean discharge in cubic feet per second

Day	April	May	Day	April	May	Day	April	Мау
1	2, 210 2, 210 2, 200 2, 170 2, 130 2, 100 2, 050 1, 990 1, 940 1, 880	4, 460 4, 870 5, 240 5, 910 6, 640 7, 120 7, 220 7, 340 7, 530	11	1, 820 1, 760 1, 690 1, 630 1, 590 1, 530 1, 460 1, 400 1, 340 1, 290	7, 580 7, 630 7, 670 7, 700 7, 720 7, 720 7, 730 7, 730 7, 730 7, 890	21 22 23 24 25 26 27 28 29 30	1, 240 1, 200 1, 170 1, 120 1, 490 2, 020 2, 440 3, 000 3, 530 4, 050	7, 890 7, 920 7, 970 7, 960 7, 920 7, 900 7, 890 7, 870 7, 840 7, 780
Monthly me Runoff Runoff					_thousand	ls of acre-feet inches	1, 922 114. 3 1. 83	7, 33 1 450. 8 7. 22

${\it Gage\ height, in\ feet, and\ discharge, in\ cubic\ feet\ per\ second,\ at\ indicated\ time,\ 1958}$

								
Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
Apr. 24		_	Apr. 29			May 4—Con.		
12 p.m :	9. 82	1, 160	4 a.m	19. 36 19. 62	3, 330 3, 400	10 a.m	24. 81	5, 880
Apr. 25			12 m	20. 12 20. 42	3, 550 3, 640	4 p.m	24. 99 25. 05	6, 150 6, 230 6, 380
2 a.m	9. 93	1, 180	8	20.68	3,720	12 p.m	25. 15	0, 380
8	10.16 11.04	1, 220 1, 390	•	20. 96	3, 810	May 5		
10 12 m	11. 65 11. 95	1, 530 1, 580	Apr. 30	01.40	9 000	6 a.m 12 m	25. 28 25. 34	6, 570 6, 660
4 p.m 8	12. 30 12. 49	1,660 1,700	6 a.m 12 m	21. 40 21. 67	3, 960 4, 050	6 p.m 12 p.m	25. 40 25. 45	6, 750 6, 820
12 p.m	12.64	1, 730	6 p.m 12 p.m	21. 93 22. 26	4, 140 4, 260	May 6		
Apr. 26			May 1			6 a.m	25. 49	6, 880
2 a.m 4	12. 79 13. 13	1,760 1,840	6 a.m	22. 50 22. 76	4, 350	12 m	25. 53 25. 57	6, 940 7, 000
8 12 m	13. 76 14. 22	1, 980 2, 080	12 m	23.06	4, 450 4, 580	12 p.m	25. 60	7, 050
8 p.m 12 p.m	14. 50 14. 69	2, 140 2, 180	12 p.m	23. 26	4, 670	May 7		
Apr. 27		_,	May 2	00.46	4 700	12 m	25. 64 25. 68	7, 110 7, 180
4 a.m	14. 93	2, 240	6 a.m	23. 46 23. 62	4, 780 4, 870	May 8	20.00	,,,,
8 12 m	15. 27 15. 76	2, 310 2, 420	6 p.m 12 p.m	23. 76 23. 92	4, 960 5, 060	12 m	25, 70	7, 210
8 p.m 12 p.m	16. 74 17. 14	2, 660 2, 760	May 3			12 p.m	25. 73	7, 260
Apr. 28	11.11	2, 100	6 a.m	24. 05	5, 160	May 9		
4 a.m	17.48	2, 840	12 m 6 p.m	24. 19 24. 26	5, 250 5, 310	12 m	25.75 25.88	7, 290 7, 500
8	17.82	2,920	12 p.m	24. 43	5, 460	1 -	20.00	1,000
12 m 4 p.m	18.42	3, 010 3, 080	May 4			May 10	05.00	7, 530
8 12 p.m	18. 72 18. 98	3, 160 3, 220	6 a.m 8 a.m	24. 54 24. 57	5, 570 5, 600	12 m 12 p.m	25. 90 25. 92	7, 560
	I	1 1	ı	i	1	I	l	· _

76. BAYOU BARTHOLOMEW NEAR JONES, LA.

[Stage station]

Location.—Lat 32°59′25″, long 91°39′20″, in SE¼SW¼ sec. 9, T. 23 N., R. 8 E., on downstream side of right pier of bridge on State Highway 834, 1 mile downstream from Arkansas-Louisiana State line and 1.6 miles northwest of Jones.

Drainage area.—1,187 sq mi.

Gage-height record.—Water-stage recorder graph. Datum of gage is 79.21 ft above mean sea level, datum of 1929, supplementary adjustment of 1941 (levels by Corps of Engineers).

Maxima.—April-May 1958: Gage height, 28.24 ft May 21, 22.

October 1957 to March 1958: Gage height, 25.64 ft Dec. 1, 2, 1957.

Remarks.—Station established Oct. 16, 1957. In extreme floods considerable flow bypasses the station. Most flow is into the Bayou LaFourche-Boeuf River basins via interconnecting system of bayous and drainage ditches and passes the two stations Bayou LaFourche near Crew Lake and Boeuf River at Girard (see elsewhere in this report).

Day	April	May	Day	April	May	Day	April	Мау
1	15.79 15.86 15.85 15.75 15.59 15.36 15.06 14.76 14.44	25.46 25.97 26.21 26.59 26.95 27.11 27.21 27.30 27.41	12	13.52 13.22 12.97 12.80 12.53 12.24 11.94 11.64 11.33	27.95 28.03 28.06 28.08 28.08 28.07 28.06 28.13 28.22	23	10.52 10.33 11.96 15.23 20.29 22.60 23.68 24.73	28.22 28.19 28.16 28.14 28.10 28.07 28.03 27.96 27.90

Mean gage height, in feet, on indicated day 1958

77. CHEMIN A HAUT BAYOU NEAR BEEKMAN, LA.

Location.—Lat 32°58′55″, long 91°48′20″, in SE½ sec. 13, T 23 N., R. 6E., near center of span on downstream side of bridge on parish road, 1½ miles downstream from Arkansas-Louisiana State line and 6 miles northeast of Beekman.

Drainage area.—271 sq mi.

13.82

Gage-height record.—Water-stage recorder graph. Datum of gage is 85.58 ft above mean sea level. Water-stage recorder on Bayou Bartholomew near Beekman used as auxiliary gage. Datum of auxiliary gage is 70.60 ft above mean sea level, datum of 1929, supplementary adjustment of 1941 (levels by Corps of Engineers).

Discharge record.—Slope-stage-discharge relation defined by current-meter measurements.

Maxima.—April-May 1958: Discharge, 29,500 cfs 10 p.m. Apr. 26; gage height, 18.71 ft 6-8 a.m. Apr. 27.

1955 to March 1958: Discharge, 3,890 cfs Apr. 7, 1956; gage height, 12.78 ft Apr. 6, 1957.

Mean discharge, in cubic feet per second

Day	April	May	Day	April	Мау	Day	April	May
1	718 550 379 277 181 116 76 54 40 32	7, 500 6, 230 4, 500 4, 080 4, 150 3, 770 3, 270 2, 900 2, 700 2, 630	11	26 21 18 20 65 81 109 92 62 46	2, 660 3, 210 3, 070 2, 600 2, 260 1, 990 1, 810 1, 670 1, 700 2, 690	21 22 23 24 25 26 27 28 29 30 31	37 32 49 107 1, 610 20, 800 24, 700 13, 400 7, 660 7, 220	3, 680 3, 560 3, 100 2, 630 2, 280 2, 020 1, 820 1, 640 1, 470 1, 300 1, 150
Monthly me Runoff Runoff	an dischar	ge			thousand	s of acre-feet inches	2, 619 155. 9 10. 78	2, 905 178. 6 12. 36

Gage height, in feet, and discharge, in cubic feet per second, at indicated times, 1958

Hour	Gage height	Discharge	Hour	G a ge height	Discharge	Hour	G a ge height	Discharge
Apr. 23			Apr. 26—Con.			Apr. 29-Con.		
12 m 12 p.m	2.74 3.29	46 70	4 a.m	14.80 15.55	10, 300 13, 000	12 p.m	16.12	6, 790
-	3.29	10	8	16.20 16.78	16, 200	Apr. 30		
Apr. 24	0 -0		10 12 m	17.36	19, 700 23, 800	12 m	16.21	7, 200
12 m 6 p.m		91 100	2 p.m	17.63 17.92	25, 900 27, 800	12 p.m	16.36	7, 700
7 9	4.70	102 156	8	18.14 18.32	28, 700 29, 100	May 1		}
12 p.m	5.85	255	9	18.40 18.47	29, 300 29, 500	12 m	16.34	7, 480
Apr. 25			11 12 p.m	18.54 18.58	29, 300 29, 000	12 p.m	16.34	7, 360
2 a.m4	6.58 7.11	331 417	Apr. 27			May 2		
6 8		529 676	6 a,m	18.71	27, 500	12 m 12 p.m	16.04 15.65	6, 240 5, 080
10 12 m	8.49	854	12 m	18.62	24,600		10.00	3,000
2 p.m		1, 100 1, 280	6 p.m 12 p.m	18.47 18.08	22, 700 18, 900	May 3		
6	10.19	1, 560 2, 010	Apr. 28			12 m 12 p.m	15.34 15.15	4, 430 4, 060
8	11.17 12.12	3, 020 4, 360	12 m	17.41	12,800	-	10,10	1,000
12 p.m	13.05	6,070	12 p.m	16.74	9, 200	May 4		1
Apr. 26			Apr. 29			8 a.m 4 p.m	14.97 15.30	3, 770 4, 300
2 a.m	13.97	8,080	12 m	16.27	7, 320	12 p.m	15.31	4, 260

78. BAYOU BARTHOLOMEW NEAR BEEKMAN, LA.

Location.—Lat 32°52′20′′, long 91°52′04′′, in NW¼NW¼ sec. 28, T. 22 N., R. 6 E., near center of span on downstream side of bridge on State Highway 139, 0.8 mile downstream from Bayou De Glaize, 4 miles south of Beekman, and 7 miles north of Bastrop.

Drainage area.—1,645 sq mi.

Gage-height record.—Water-stage recorder graph. Datum of gage is 70.60 ft above mean sea level, datum of 1929, supplementary adjustment of 1941 (levels by Corps of Engineers).

Discharge record.—Stage-discharge relation defined by current-meter measurements.

Maxima.—April-May 1958: Discharge, 14,700 cfs 8 a.m. May 2 (gage height, 28.30 ft).

 $1928 – 31, \, 1938$ to March $1958 \colon$ Discharge, $10,\!400$ cfs Feb. 12, 1946 (gage height, $27.23 \; \text{ft}$).

A discharge of 12,400 cfs (gage height, 25.78 ft) was measured by Corps of Engineers Jan. 12, 1932.

Remarks.—In extreme floods, considerable flow bypasses the station. Most flow is into the Bayou LaFourche-Boeuf River basins via interconnecting system of bayous and drainage ditches and passes the two stations Bayou LaFourche near Crew Lake and Boeuf River at Girard (see elsewhere in this report).

Mean discharge, in cubic feet per second

Day	April	Мау	Day	April	Мау	Day	April	May
1	3, 160 3, 160 3, 090 3, 010 2, 900 2, 790 2, 680 2, 580 2, 470 2, 370	14, 300 14, 600 13, 700 13, 300 13, 400 12, 500 11, 400 10, 700 10, 200 10, 100	11	2, 250 2, 160 2, 090 2, 030 2, 000 2, 000 1, 940 1, 870 1, 790 1, 690	9, 950 9, 870 9, 920 9, 860 9, 700 9, 520 9, 350 9, 210 9, 250 9, 550	21 22 23 24 25 26 27 28 29 30 31	1, 610 1, 530 1, 450 1, 410 1, 960 4, 760 9, 620 13, 500 14, 000 13, 800	10, 000 10, 200 10, 300 10, 100 9, 820 9, 560 9, 340 9, 130 8, 960 8, 810 8, 660
Monthly me Runoff Runoff		•			thousand	ls of acre-feet inches_	3, 722 221. 5 2. 52	10, 490 645, 1 7, 35

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1958

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
Apr. 24			Apr. 27		-	Apr. 30		
12 m 12 p.m	8.03 8.21	1, 390 1, 440	2 a.m	23. 98 24. 50 25. 14	8, 110 8, 430 8, 880	12 m 12 p.m	28. 07 28. 15	13, 700 14, 000
Apr. 25	9.15	1, 540 1, 690	8 10 12 m 2 p.m	26.48	9, 380 9, 650 9, 840 10, 000	May 1 12 m	28. 22 28. 28	14, 300 14, 600
12 m	10.96 11.76	1,950 2,180 2,400 2,600	6 8 10	26. 62 26. 74 26. 85 27. 08	10, 200 10, 300 10, 500 10, 800	May 2 8 a.m 4 p.m	28. 30 28. 27	14, 700 14, 600
Apr. 26		·	12 p.m	27.22	11,000	12 p.m May 3	28. 19	14, 200
2 a.m		2,740 2,910 3,250	4 a.m	27. 70 28. 00	12,300 13,400	12 m 12 p.m	28.05 27.94	13, 600 13, 200
8 10 12 m 2 p.m 4	16. 20 17. 35 18. 40	3, 620 4, 020 4, 580 5, 100 5, 660	12 m 4 p.m 8. 12 p.m	28. 14 28. 21 28. 22 28. 20	14,000 14,300 14,300 14,200	May 4 8 a.m 4 p.m 12 p.m	27. 84 28. 06 28. 10	12, 800 13, 600 13, 800
6	20. 60 21. 52 22. 40	6, 220 6, 720 7, 200 7, 700	A pr. 29 12 m 12 p.m	28. 14 28. 12	14,000 13,900	May 5 12 m	28. 01 27. 95	13, 400 13, 200

79. BAYOU DE LOUTRE NEAR LARAN, LA.

Location.—Lat 32°57′20′′, long 92°30′00′′, in NW¼ sec. 29, T. 23 N., R. 1 W., near center of span on downstream side of bridge on Parish road, 1½ miles southwest of Laran, 1½ miles downstream from Lion Creek, and 3 miles upstream from bridge on State Highway 550.

Drainage area.—141 sq mi.

Gage-height record.—Water-stage recorder graph except Apr. 27, and part of Apr. 28 when recorder was submerged. Graph was reconstructed for Apr. 28 on basis of high-water mark in gage house, outside gage reading, and partial recorder record. Datum of gage is 112.34 ft. above mean sea level, datum of 1929.

Discharge record.—Stage-discharge relation defined by current-meter measurements,

Maxima.—April-May 1958: Discharge, 22,600 cfs (time unknown) Apr. 27 (gage height, 20.29 ft, from floodmark).

1956 to March 1958: Discharge, 2,700 cfs Apr. 30, 1957 (gage height, 11.10 ft).

Mean discharge, in cubic feet per second

Day	April	May	Day	April	May	Day	April	May
1	244 200 179 148 111 87 72 65 60 60	4, 040 3, 620 2, 620 1, 700 1, 150 830 897 765 579 525	11	59 60 61 78 97 101 105 107 108 100	527 491 440 404 303 159 89 84 395 1,150	21	105 102 110 116 671 5, 440 20, 000 15, 000 7, 160 4, 520	1, 550 1, 530 922 565 338 153 81 63 56 50
					thousand	ls of acre-feetinches	1, 844 109. 7 14. 59	843 51. 81 6. 89

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1958

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
Apr. 24			Apr. 27			May 1		-
12 m 12 p.m	2. 96 3. 31	108 137	Apr. 28	20. 29	22, 600	12 m 12 p.m	12. 74 12. 65	4, 060 3, 980
Apr. 25 6 a.m	4. 94 7. 08 8. 01 8. 92	316 667 949 1, 370	2 s.m	19.90 18.12 16.24	21, 000 14, 700 9, 610	May 2 12 m	12. 30 11. 71	3, 660 3, 170
Apr. 26 4 a.m 8	10. 14 11. 40 12. 98	2, 060 2, 920 4, 290	6 a.m	15. 58 14. 87 14. 36 13. 84	8, 200 6, 900 6, 070 5, 320	May 3 12 m 12 p.m May 4	10. 98 10. 16	2, 610 2, 080
4 p.m	14. 65 16. 15 17. 74	6, 530 9, 410 13, 500	Apr. 30 12 m 12 p.m	13. 05 12. 75	4, 360 4, 060	12 m 12 p.m	9. 48 8. 96	1, 670 1, 340

80. BAYOU DE LOUTRE NEAR DE LOUTRE, LA.

[Stage station]

Location.—Lat 32°50′25″, long 92°18′39″, in SW¼NW¼ sec. 6, T. 21 N., R. 2 E., near center of span on downstream side of bridge on State Highway 33, 0.3 mile upstream from Missouri Pacific Railroad bridge and half a mile north of de Loutre.

Drainage area.—302 sq mi.

Gage-height record.—Wire-weight gage read at 8 a.m. daily. Datum of gage is at mean sea level, datum of 1929, supplementary adjustment of 1941.

Maxima.—April-May 1958: Elevation, 98.55 ft 8:00 a.m. Apr. 28.

1948 to March 1958: Elevation, 90.72 ft May 19, 1953.

Remarks.—Records furnished by Corps of Engineers.

Elevation, in feet, at 8 a.m. on indicated day 1958

Day	April	Мау	Day	April	Мау	Day	April	May
1. 2. 3. 4. 5. 6	81. 6 81. 4 81. 2 80. 7 80. 3 80. 1 79. 9 79. 6 79. 1	94.6 92.1 91.8 90.4 88.9 88.1 87.4 85.2 84.8	11 12 12 13 14 15 16 16 17 17 18 19 20	78. 6 78. 1 78. 1 78. 2 78. 3 78. 5 78. 5 78. 7 78. 7	84. 5 84. 5 84. 4 84. 4 84. 1 84. 0 84. 1 85. 5 88. 7	21 22 23 24 25 26 27 27 28 29 30	78. 9 79. 2 79. 4 79. 4 82. 1 91. 1 97. 0 98. 55 97. 7 96. 4	89. 4 88. 6 88. 2 87. 0 86. 9 86. 4 85. 6 84. 6 83. 1

81. BIG CREEK NEAR VIENNA, LA.

[Crest-stage gage]

Location.—Lat 32°37′50″, long 92°43′25″, in SW¼SW¼ sec. 18, T. 19 N., R. 3 W., on upstream side of bridge on State Highway 146, 0.2 mile downstream from Wafer Creek and 5.3 miles north of Vienna.

Drainage area.—68.9 sq mi.

Gage-height record.—Crest stages only. Datum of gage is 88.52 ft above mean sea level (Louisiana Geodetic Survey bench mark; levels by Louisiana Department of Public Works).

Discharge record.—Stage-discharge relation defined by current-meter measurements

Maxima.—April-May 1958: Discharge, 2,350 cfs Apr. 27 (gage height, 45.08 ft).

1954 to March 1958: Discharge 3,280 cfs June 1, 1957 (gage height, 45.75 ft).

82. BAYOU D'ARBONNE NEAR DUBACH, LA.

Location.—Lat 32°40′50′′, long 92°39′10′′, in SW¼NW¼ sec. 35, T. 20 N., R. 3 W., near left bank on downstream side of bridge on U.S. Highway 167, 1½ miles south of Dubach and 8 miles upstream from Middle Fork Bayou D'Arbonne.

Drainage area.-355 sq mi.

Gage-height record.—Water-stage recorder graph. Datum of gage is 83.25 ft above mean sea level, datum of 1929 (levels by Louisiana Department of Public Works).

Discharge record.—Stage-discharge relation defined by current-meter measurements. Maxima.—April-May 1958: Discharge, 13,400 cfs 8 a.m. Apr. 28 (gage height, 20.90 ft).

1940 to March 1958: Discharge, 23,400 cfs Apr. 2, 1945 (gage height, 22.83 ft).

Mean discharge, in cubic feet per second

Day	April	May	Day	April	Мау	Day	April	Мау
1 2	652 601 528 451 402 358 312 271 251 264	8, 660 8, 390 5, 580 3, 580 3, 030 2, 540 2, 090 1, 720 1, 370 1, 170	11	290 278 249 270 397 402 348 285 292 343	1, 050 907 785 739 610 448 357 685 1, 880 4, 430	21	329 319 259 249 968 4, 100 7, 410 12, 000 7, 700 6, 660	5, 870 3, 800 2, 450 1, 860 1, 420 987 657 516 438 395 348
Monthly me Runoff Runoff					thousand	ls of acre-feet inches	1, 575 93. 7 4. 95	2, 218 136. 4 7. 20

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1958

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
Apr. 24			Apr. 28			May 18-Con.		
6 a.m	6. 79 6. 74 6. 68 8. 18	225 217 207 462	8 a.m 4 p.m 12 p.m Apr. 29	20. 90 20. 60 20. 07	13, 400 12, 000 9, 620	6 p.m 12 p.m May 19	11. 40 12. 50	1,010 1,200
Apr. 25	9. 42 10. 63	672 878	12 m 12 p.m	19. 54 19. 35	7, 310 6, 550	6 a.m 12 m 6 p.m 12 p.m	13. 86 14. 97 16. 10 18. 00	1, 480 1, 730 2, 040 3, 300
12 m 6 p.m 12 p.m	12. 70 14. 83	1, 240 1, 700	Арт. 30 12 m 12 p _: m	19. 27 19. 61	6, 240 7, 590	May 20 6 a.m 12 m	18. 47 18. 60	3, 890 4, 200
Apr. 26 6 a.m	18.60	2, 560 4, 200 5, 650	May 1 12 m	19.89 20.03	8, 800 9, 440	6 p.m	18.89 19.20	4, 970 6, 000
12 p.m	19. 27	6, 240	May 2 12 m	19.82 19.50	8, 490 7, 150	4 a.m 12 m 12 p.m	19. 24 19. 20 18. 88	6, 140 6, 000 4, 940
6 a.m	19. 29 19. 70	6, 350 6, 320 7, 950 11, 800	May 18 6 a.m	7. 40 9. 21	329 637	May 22 12 m	18. 3 2 17. 68	3, 630 2, 980

83. CYPRESS CREEK NEAR UNIONVILLE, LA.

[Crest-stage gage]

Location.—Lat 32°39'35'', long 92°35'20'' on line between sec. 4 and 5, T. 19 N., R. 2 W., at bridge on State Highway 822, 0.4 mile downstream from Sixteen Branch and 3.2 miles east of Unionville.

Drainage area.-63.3 sq mi.

Gage-height record.—Crest stages only. Datum of gage is 57.83 ft above mean sea level (levels by Louisiana Department of Public Works).

Discharge record.—Stage-discharge relation defined by current-meter measurements.

Maxima.—April-May 1958: Discharge, 2,520 cfs Apr. 27 (gage height, 42.72 ft).

1953 to March 1958: Discharge, 4,200 cfs July 3, 1955 (gage height, 43.52 ft).

84. MIDDLE FORK BAYOU D'ARBONNE NEAR BERNICE, LA.

[Crest-stage gage]

Location.—Lat 32°45′50′′, long 92°39′30′′, in NE¼SE¼ sec. 34, T. 21 N., R. 3 W., near center of channel on downstream side of bridge on U.S. Highway 167, 4 miles south of Bernice and 8 miles upstream from mouth.

Drainage area.—178 sq mi.

Gage-height record.—Crest stages only. Datum of gage is 97.08 ft above mean sea level, datum of 1929 (levels by Louisiana Department of Public Works).

Discharge record.—Stage-discharge relation defined by current-meter measurements.

Maxima.—April-May 1958: Discharge, 28,000 cfs Apr. 27 (gage height, 13.86 ft).

1940 to March 1958: Discharge, 10,500 cfs Mar. 5, 1945 (gage height, 11.45 ft).

Remarks.—Discontinued as a gaging station Sept. 30, 1957.

85. CORNIE BAYOU NEAR THREE CREEKS, ARK.

Location.—Lat 33°02′, long 92°56′, in NW¼ sec. 36, T. 19 S., R. 18 W., on down-stream side of bridge on State Highway 15, 4½ miles downstream from Pidgeon Roost Creek and 6 miles southwest of town of Three Creeks.

Drainage area.—180 sq mi.

Gage-height record.—Wire-weight gage read once daily.

Discharge record.—Stage discharge relation defined by current-meter measurements below 11,000 cfs and extended above on basis of contracted-opening measurement of peak flow.

Maxima.—April-May 1958: Discharge, 35,800 cfs 7 a.m. Apr. 27 (gage height, 15.50 ft).

1956 to March 1958: Discharge, 6,440 cfs Apr. 28, 1957 (gage height, 12.00 ft).

Maximum stage known since at least 1880, that of Apr. 27, 1958.

Day	April	May	Day	April	May	Day	April	Мау
1	249 198 158 128 107 93 78 68 65 72	5, 320 4, 210 2, 120 1, 380 1, 090 928 710 546 432 320	11	76 82 79 99 174 205 188 131 88 77	262 257 260 282 159 108 88 98 408 656	21 22 22 23 24 25 26 27 27 28 29 30	73 76 92 89 356 10, 800 28, 900 12, 400 4, 410 2, 150	994 1, 090 736 482 296 146 92 75 75 72 65
Runoff					_thousand	ls of acre-feet inches	2. 059 122. 5 12. 76	766 47. 12 4. 91

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1958

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
Apr. 24			Apr. 27—Con.			May 1—Con.		
12 p.m	5. 10	83	12 p.m	14.00	20, 500	12 p.m	11.43	5, 490
Apr. 25			Apr. 28			May 2		
2 a.m	5. 47 6. 32 6. 75 7. 18 7. 58 7. 96 8. 38 8. 84 9. 26 9. 68	102 151 182 217 255 296 349 431 554	2 a.m	13. 80 13. 60 13. 35 13. 14 12. 94 12. 73 12. 54 12. 35 12. 18 12. 04	18, 900 17, 400 15, 600 14, 100 12, 800 11, 600 10, 500 9, 550 8, 710 8, 060	4 a.m	11. 34 11. 23 11. 08 10. 93 10. 80 10. 67	5, 150 4, 750 4, 210 3, 700 3, 280 2, 870
12 p.m	10. 10	1, 460	10 12 p.m Apr. 29	11. 90 11. 76	7, 440 6, 820	12 m 6 p.m 12 p.m	10.36 10.28 10.19	2,020 1,840 1,640
2 a.m	10. 50 10. 90 11. 30 11. 68 12. 00 12. 38 12. 73 13. 10	2,380 3,600 5,000 6,480 7,880 9,700 11,600 13,800	4 a.m	11. 53 11. 31 11. 07 10. 90 10. 73 10. 56	5, 880 5, 040 4, 180 3, 600 3, 060 2, 550	May 4 6 a.m	10. 12 10. 04 9. 99 9. 94	1, 500 1, 350 1, 260 1, 180
6	13. 44 13. 78 14. 12 14. 40	16, 200 18, 700 21, 500 24, 000	4 a.m	10. 46 10. 36 10. 30 10. 30 10. 38 10. 70	2, 280 2, 020 1, 880 1, 880 2, 070 2, 960	6 a.m	9. 91 9. 87 9. 84 9. 82	1, 140 1, 080 1, 040 1, 010
4	15. 13 15. 46 15. 50 15. 47 15. 34 15. 15	31, 500 35, 300 35, 800 35, 400 33, 900 31, 700 29, 600	May 1 2 a.m	10. 93 11. 16 11. 34 11. 45	3, 700 4, 500 5, 150 5, 570	6 a.m	9. 80 9. 76 9. 72 9. 66	980 932 884 820
2 p.m	14. 96 14. 76 14. 58 14. 38 14. 20	29, 600 27, 500 25, 700 23, 800 22, 200	8	11. 45 11. 50 11. 54 11. 53 11. 50	5, 760 5, 920 5, 880 5, 760	6 a.m	9. 60 9. 53 9. 46 9. 39	760 704 656 615

86. THREE CREEK NEAR THREE CREEKS, ARK.

Location.—Lat 33°04′, long 92°53′, in SE¼ sec. 17, T. 19 S., R. 17 W., on down-stream side of bridge on State Highway 15, 2¼ miles southwest of town of Three Creeks and 2¼ miles upstream from small tributary.

Drainage area.-46 sq mi.

Gage-height record.—Staff gage read twice daily.

Discharge record.—Stage discharge relation defined by current-meter measurements below 2,300 cfs and extended above on basis of contracted-opening measurement of peak flow.

Maxima.—April-May 1958: Discharge, 11,300 cfs 6-8 p.m. Apr. 26 (gage height, 9.35 ft).

 $19\overline{5}6$ to March 1958: Discharge, 1,450 cfs Apr. 27, 1957 (gage height, 5.82) .

Maximum stage known since at least 1880, that of Apr. 26, 1958.

Mean discharge, in cubic feet per second

Day	April	May	Day	April	May	Day	April	May
1	38 26 20 18 18 18 16 16	1, 700 877 447 414 334 167 66 37 22 30	11	14 13 12 31 81 72 32 18 13	126 91 32 20 15 13 11 20 384 772	21 22 23 24 25 26 27 28 29 30 31	14 28 16 13 374 7, 910 6, 420 1, 390 1, 370 2, 380	430 118 31 18 13 9.6 9.0 8.3 10 9.0 7.7
Monthly me Runoff Runoff		- 			_thousand	ls of acre-feet inches	680 40.49 16.50	201 12, 38 5, 05

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1958

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
Apr. 24			Apr. 27—Con.			May 2		
12 p.m	2. 55	26	10 p.m 12 p.m	6.30 6.06	2, 900 2, 420	6 a.m 12 m	5. 27 5. 14	1, 050 872
Apr. 25			Apr. 28			6 p.m 12 p.m	4.97 4.86	667 550
2 a.m 8 10	2.80 3.51 3.74	36 79 103	2 a.m	5. 90 5. 73	2, 100 1, 790	May 3		
12 m 2 p.m 4	3.98 4.23 4.50	140 205 294	8 10	5. 62 5. 55 5. 46	1,600 1,480 1,340	6 a.m 12 m 6 p.m	4.80 4.73 4.70	490 430 405
6 8 10	4.80 5.12 5.45	441 796 1, 310	2 p.m 6 8	5. 36 5. 28 5. 26	1,180 1,060 1,030	12 p.m	4.66	377
12 p.m	5. 80	1, 920	12 p.m	5. 26	1, 030	May 4		
Apr. 26			Apr. 29			6 a.m 12 m	4. 67 4. 70	384 405
2 a.m	6. 20 6. 65	2, 700 3, 670	8 12 m	5. 27 5. 33 5. 42	1,050 1,140 1,270	6 p.m 12 p.m	4. 76 4. 76	451 451
6 8 10	7. 15 7. 70 8. 16	4, 880 6, 250 7, 430	4 p.m 8		1,480 1,740	May 5		
12 m 2 p.m	8. 60 9. 06	8,650 10,200	Apr. 30	0.88	2,060	6 a·m 12 m 6 p.m	4.76 4.58 4.37	451 324 231
4 6 8	9. 27 9. 35 9. 35	11, 000 11, 300 11, 300	4 a.m	6.05	2, 400	12 p.m	4.28	205
10 12 p.m.	9. 27 9. 12	11, 000 10, 400	8 12 m	6.17	2, 640 2, 580 2, 360	May 6		
Apr. 27			4 p.m 8 12 p.m	6. 03 5. 92 5. 86	2, 140 2, 030	6 a.m 12 m 6 p.m	4. 25 4. 17 3. 97	198 179 139
2 a.m	8.98	9, 880	May 1			12 p.m	3. 72	101
8	8.83 8.45	9, 360 8, 220	4 a.m	5.85	2,010	May 7		
10 12 m	8.13 7.75	7, 350 6, 380	8 12 m	5.82 5.74	1, 960 1, 810	6 a.m	3.45 3.29	74 62
2 p.m 6 8 p.m	7. 40 6. 80 6. 54	5, 500 4, 020 3, 430	8 12 p.m	5. 63 5. 52 5. 43	1, 610 1, 430 1, 290	12 m 6 p.m 12 p.m	3. 29 3. 15 3. 02	54 47

87. CORNEY BAYOU NEAR LILLIE, LA.

[Crest-stage gage]

Location.—Lat 32°53′15″, long 92°39′25″, in NE¼NE¼ sec. 22, T. 22 N., R. 3 W., on downstream side of bridge on U.S. Highway 167, 2 miles upstream from confluence with Little Corney Bayou and 3 miles south of Lillie.

Drainage area.-462 sq mi.

Gage-height record.—Crest stages only. Datum of gage is 84.08 ft above mean sea level, datum of 1929, supplementary adjustment of 1941.

Discharge record.—Stage-discharge relation defined by current-meter measurements.

Maxima.—April-May 1958: Discharge, 46,300 cfs Apr. 27 (gage height, 25.20 ft).

1940 to March 1958: Discharge, 17,200 cfs Mar. 5, 1945 (gage height, 18.20 ft).

Remarks.—Discontinued as gaging station Sept. 30, 1957.

88. LITTLE CORNEY BAYOU NEAR LILLIE, LA.

Location.—Lat 32°55'40'', long 92°37'55'', in NW¼ sec. 1, T. 22 N., R. 3 W., near center of span on downstream side of bridge on State Highway 15, 1.4 miles east of Lillie and 2½ miles upstream from mouth.

Drainage area.-208 sq mi.

Gage-height record.—Water-stage recorder graph except Apr. 27-30. Graph for Apr. 27 was reconstructed on basis of high-water mark in gage house and outside gage readings. Datum of gage is 91.48 ft above mean sea level, datum of 1929, supplementary adjustment of 1941.

Discharge record.—Stage-discharge relation defined by current-meter measurements. Stage-discharge relation indefinite Apr. 28-May 3, discharge estimated on basis of 2 discharge measurements, weather records, and records for nearby stations.

Maxima.—April-May 1958: Discharge, 21,400 cfs (time unknown) Apr. 28 (gage height, 16.52 ft, from floodmark).

1956 to March 1958: Discharge, 4,660 cfs Apr. 29, 1957 (gage height, 9.19 ft).

Day	April	May	Day	April	May	Day	April	Мау
1	299 273 231 166 122 93 73 62 58 64	3, 000 2, 500 2, 000 1, 650 1, 120 960 820 820 588 471 441	11 12 12 13 14 15 16 17 17 18 18 19 20	76 77 68 85 149 167 189 193 147	471 402 336 336 310 181 108 92 575 1, 800	21	103 149 132 87 628 8, 660 18, 200 20, 000 11, 000 5, 000	1, 670 1, 490 914 572 400 206 108 82 103 102 86
Monthly mea Runoff Runoff					thousand	ls of acre-feet inches	2, 202 131 11. 81	771 47. 39 4. 27

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1958

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
Apr. 24	3. 56	88	Apr. 25—Con. 10 p.m 12 p.m	7.01 7.25	1,060 1,320	Apr. 26—Con.	13.89 14.05	14, 900 15, 300
Apr. 25	3, 66	97	Apr. 26		,	12 p.m Apr. 27	14.05	10,500
4 6 8	4. 08 5. 00 5. 80	145 262 410	2 a.m	7. 52 8. 05 8. 47 9. 18	1, 640 2, 380 3, 060 4, 340	2 a.m 4 8	14. 15 14. 27 14. 58	15, 600 15, 800 16, 600
10 12 m 2 p.m	6. 27 6. 55 6. 72 6. 83	550 680 796	10	9. 91 10. 77 11. 69	5, 810 7, 640 9, 700	10 12 m 4 p.m	14.79 15.22 15.81	17, 100 18, 200 19, 600 20, 300
6 8 p.m	6. 90 6. 94	887 950 990	6 8 p.m	12. 52 13. 13 13. 62	11, 600 13, 100 14, 300	6 8 12 p.m	16. 07 16. 22 16. 40	20, 300 20, 700 21, 100

89. BAYOU D'ARBONNE NEAR FARMERVILLE, LA.

[Stage station]

Location.—Lat 32°45'27'', long 92°24'54'', in SE¼SE¼ sec. 36, T. 21 N., R. 1 W., near right bank on downstream side of bridge on State Highway 33, 0.5 mile southwest of Farmerville and 1.2 miles downstream from Corney Bayou.

Drainage area.—1,470 sq mi.

Gage-height record.—Water-stage recorder graph. Datum of gage is 39.79 ft above mean sea level (levels by Corps of Engineers).

Maxima.—April-May 1958: Gage-height, 45.71 ft 8 a.m. Apr. 30.

1925 to March 1958: Gage height, 44.5 ft May 3, 1927.

Remarks.—Records furnished by Corps of Engineers.

Gage height, in feet, at 8 a.m. of indicated day 1958

Day	April	May	Day	April	May	Day	April	May
1	27. 9 28. 0 27. 9 27. 7 27. 2 26. 6 25. 6 24. 5 23. 2 22. 2 21. 5	45. 2 44. 3 43. 6 42. 6 41. 2 40. 0 39. 2 38. 1 37. 8 38. 0 38. 4	12	21. 0 20. 6 20. 4 21. 1 21. 8 21. 6 21. 0 20. 6 21. 0 22. 1 22. 4	39. 0 39. 6 40. 1 40. 5 41. 0 41. 3 41. 5 42. 1 42. 8 43. 2	23	22. 0 21. 1 25. 0 30. 9 34. 0 38. 0 44. 6 45. 71	43. 5 43. 4 43. 1 42. 8 42. 5 42. 2 41. 8 41. 5

90. BAYOU DESIARD AT MONROE, LA.

[Stage station]

Location.—Lat 32°33'18", long 92°07'06", in lot 35, T. 18 N., R. 3 E., on east side of intake structure of city of Monroe pumping station, 100 ft east of east levee of Ouachita River and 1 mile north of Monroe.

Gage-height record.—Wire-weight gage read twice daily. Datum of gage is at mean sea level, datum of 1929.

Maxima.—April-May 1958: Elevation observed, 71.32 ft May 20, 21.

1939 to March 1958: Elevation observed, 72.86 ft Apr. 27, 1946.

Remarks.—Daily elevations computed from twice-daily gage readings. Bayou Desiard, which is a source of water supply for the city of Monroe, is a long narrow lake formed by an old channel of Bayou Bartholomew. It is dammed off from Bayou Bartholomew at its north end by a levee and from Ouachita River at its west end by a levee and floodgates.

Mean elevations, in	feet,	of indicated	day 1958
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Day	April	Мау	Day	April	May	Day	April	Мау
1 2 3 4 5 5 5 5 7 7 8 9 10 11 11 11 11 11 11 11 11 11 11 11 11	70. 77 70. 76 70. 73 70. 72 70. 72 70. 70 70. 68 70. 68 70. 64 70. 63 70. 60	71. 10 71. 06 71. 08 71. 09 71. 11 71. 10 71. 10 71. 09 71. 08 71. 11 71. 18	12	70. 59 70. 58 70. 58 70. 57 70. 55 70. 54 70. 53 70. 53 70. 53 70. 54 70. 52	71. 20 71. 14 71. 12 71. 10 71. 08 71. 08 71. 29 71. 30 71. 32 71. 32 71. 17	23	70. 52 70. 49 70. 54 70. 76 70. 76 70. 74 70. 80 70. 97	71. 16 71. 14 71. 13 71. 11 71. 10 71. 09 71. 08 71. 08 71. 04

91. OUACHITA RIVER AT MONROE, LA.

Location.—Lat 32°30′19′′, long 92°07′32′′, in lot 50, T. 18 N., R. 3 E., near center of span on downstream side of bridge on U.S. Highway 80 at Monroe, 0.4 mile upstream from Illinois Central Railroad bridge and 5½ miles upstream from lock and dam No. 4.

Drainage area.—15,298 sq mi.

Gage-height record.—Wire-weight gage read once daily. Datum of gage is 31.40 ft above mean sea level, datum of 1929, supplementary adjustment of 1941 (levels by Corps of Engineers).

Discharge record.—Stage-discharge relation defined by current-meter measurements.

Maxima.—April-May 1958: Daily discharge, 97,200 cfs May 22; gage height, 50.45 ft May 23.

1932 to March 1958: Discharge, 101,000 cfs Feb. 2, 3, 1932; gage height, 50.42 ft Apr. 15, 1945.

Remarks.—Base data collected and records computed by Corps of Engineers; occasional discharge measurements and records reviewed by Geological Survey.

Mean discharge, in cubic feet per second

Day	April	Мау	Day	April	Мау	Day	April	Мау
1	25, 000 25, 900 26, 800 27, 500 28, 100 28, 400 28, 400 27, 400 27, 400 27, 000	57, 300 59, 400 61, 300 63, 300 65, 100 68, 100 71, 000 73, 900 78, 200	11	26, 500 25, 800 25, 300 24, 700 24, 100 23, 600 22, 600 22, 600 21, 700	80, 300 82, 600 85, 500 88, 900 91, 000 90, 200 90, 200 93, 000 93, 900	21	21, 500 21, 000 20, 700 20, 000 20, 900 25, 900 31, 300 37, 000 42, 300 49, 500	95, 600 97, 200 95, 400 94, 000 92, 500 91, 000 89, 900 86, 200 84, 200 81, 600
Monthly me Runoff					thousand	ls of acre-feet inches_	26, 740 1, 591 1. 95	82, 450 5, 070 6, 21

92. BOEUF RIVER NEAR ARKANSAS-LOUISIANA STATE LINE

[Stage station]

Location.—Lat 32°58′35″, long 94°26′20″, in SW¼SW¼, sec. 15, T. 23 N., R. 10 E., on left bank 2 miles downstream from Arkansas-Louisiana State line and 8 miles west of Kilbourne.

Drainage area.—785 sq mi (see Remarks).

Gage-height record.—Water-stage recorder graph except April 20 to May 31 when graph was based on twice-daily staff-gage readings to tenths furnished by Corps of Engineers. Datum of gage is 74.11 ft above mean sea level, datum of 1929, supplementary adjustment of 1941 (authority Corps of Engineers).

Maxima.—April-May 1958: Gage height, 22.56 ft 4 a.m. May 6.

1946 to March 1958: Gage height, 22.8 ft Feb. 15, 1948.

Remarks.—Records collected by Corps of Engineers prior to Dec. 31, 1957.

Interconnecting system of bayous and drainage ditches produce an interchange of flow under varying conditions; hence, the drainage limits were more or less arbitrarily determined.

Mean gage	height, i1	n feet, o	f indicated	day, 1958

Day	April	Мау	Day	April	Мау	Day	April	Мау
1	4. 46 3. 93 3. 45 3. 20 2. 90 2. 70 2. 48 2. 31 2. 19 2. 09 2. 03	22. 2 22. 3 22. 0 22. 0 22. 4 22. 5 22. 1 21. 2 20. 2 19. 9 19 8	12 13	1. 92 1. 86 1. 87 2. 59 2. 51 2. 24 2. 10 2. 04 2. 2 2. 3 2. 2	19. 2 16. 9 15. 3 14. 3 13. 2 12. 4 11. 8 11. 4 16. 1 18. 8 17. 7	23	2. 2 2. 2 12. 6 19. 6 21. 4 21. 8 22. 0 22. 2	15. 5 13. 8 12. 5 11. 6 11. 0 10. 1 8. 9 7. 8 6. 6

93. BOEUF RIVER NEAR OAK GROVE, LA.

[Stage station]

Location.—Lat 32°46′18′′, long 91°35′45′′, in SW¼SW¼ sec. 30, T. 21 N., R. 9 E., near left bank on downstream side of bridge on State Highway 2, 13 miles west of Oak Grove.

Drainage area.—1,052 sq mi (see Remarks).

Gage-height record.—Water-stage recorder graph. Datum of gage is at mean sea level (levels by Corps of Engineers).

Maxima.—April-May 1958: Elevation, 88.60 ft 2 p.m. May 5.

1946 to March 1958: Elevation, 89.6 ft Feb. 21, 1948.

Remarks.—Records furnished by Corps of Engineers. Interconnecting system of bayous and drainage ditches produce an interchange of flow under varying conditions; hence, the drainage limits were more or less arbitrarily determined.

Elevation, in feet, at 8 a.m. of indicated day, 1958

Day	April	May	Day	April	May	Day	April	Мау
1	68. 6 67. 6 66. 9 66. 4 66. 0 65. 6 65. 3 65. 0 64. 9	88. 2 88. 1 87. 9 87. 8 88. 60 88. 5 88. 3 88. 0 87. 5 86. 9	11	64. 7 64. 6 64. 5 64. 4 64. 8 65. 5 65. 1 64. 8 64. 7 64. 6	86. 3 85. 4 83. 6 81. 3 79. 6 78. 3 77. 2 76. 1 75. 6 78. 5	21	64. 7 64. 8 64. 8 64. 7 70. 1 83. 7 86. 1 86. 5 86. 8 87. 5	83. 7 83. 4 81. 6 78. 9 75. 6 75. 3 74. 2 70. 9 70. 1

94. BOEUF RIVER NEAR OAK RIDGE, LA.

[Stage station]

Location.—Lat 32°36′54′′, long 91°41′12′′ in NW¼ SE¼ sec. 19, T. 19 N., R. 8 E., on downstream side of bridge on State Highway 134, 5 miles east of Oak Ridge.

Drainage area.—1,199 sq mi (see Remarks).

Gage-height record.—Water-stage recorder graph. Datum of gage in doubt.

Maxima.—April-May 1958: Gage height, 80.52 ft 8 a.m. May 5.

1946 to March 1958: Gage height, 79.8 ft Apr. 11, 1947.

Remarks.—Records furnished by Corps of Engineers. Interconnecting system of bayous and drainage ditches produce an interchange of flow under varying conditions; hence, the drainage limits were more or less arbitrarily determined.

Day	April	Мау	Day	April	Мау	Day	April	Мау
1	66. 0 65. 6 65. 3 65. 1 65. 0 64. 9 64. 8 64. 6 64. 6	80. 5 80. 3 80. 0 79. 7 80. 52 80. 3 80. 1 80. 0 79. 5 78. 9	11	64. 5 64. 5 64. 5 64. 6 64. 8 64. 7 64. 6 64. 5 64. 5	78. 4 77. 8 76. 6 74. 9 73. 4 72. 3 71. 4 70. 8 70. 3	21	64. 5 64. 5 64. 5 64. 5 65. 7 74. 8 77. 5 78. 3 78. 5	75. 5 75. 8 74. 7 72. 9 71. 4 70. 3 69. 9 69. 4 68. 2 67. 4 66. 9

Gage height, in feet, at 8 a.m. of indicated day, 1958

95. BOEUF RIVER NEAR GIRARD, LA.

Location.—Lat 32°28′50′′, long 91°47′55′′, on line between sec. 1, T. 17 N., R. 6 E., and sec. 6, T. 17 N., R. 7 E., on upstream side of pier on Illinois Central Railroad bridge, 0.5 mile east of Girard.

Drainage area.—1,226 sq mi (see Remarks).

Gage-height record.—Water-stage recorder graph. Datum of gage is 51.62 ft above mean sea level, datum of 1929, supplementary adjustment of 1941 (levels by Corps of Engineers). Auxiliary staff gage read twice daily at site 8.1 miles downstream at different datum.

Discharge record.—Slope-stage-discharge relation defined by current-meter measurements. Discharge Apr. 29-May 31, computed by using fall as determined from auxiliary gage as a factor.

Maxima.—April-May 1958: Discharge, 3,070 cfs 10 a.m. May 2; gage height, 19.31 ft 4 a.m. May 6.

1938 to March 1958: Discharge, 2,970 cfs Apr. 12, 1947 (gage height, 18.80 ft).

Maximum stage known, 29.5 ft May 7, 1927 (affected by overflow from Mississippi River).

Remarks.—Interconnecting system of bayous and drainage ditches produce an interchange of flow; hence, the drainage limits were more or less arbitrarily determined. Boeuf River and Bayou LaFourche basins are connected by a canal upstream. In extreme floods, considerable flow from the Bayou Bartholomew basin passes this station.

Mean discharge, in cubic feet per second

Day	April	May	Day	April	Мау	Day	April	May
1	379 345 291 248 216 191 171 160 148 138	2, 540 2, 980 2, 880 2, 810 2, 800 2, 810 2, 770 2, 770 2, 740 2, 700 2, 640	11	131 126 122 120 117 118 129 130 129 127	2, 560 2, 500 2, 360 2, 180 1, 970 1, 670 1, 470 1, 360 1, 300 1, 160	21	127 124 124 124 134 397 1, 080 1, 580 1, 900 2, 150	1, 400 1, 680 1, 780 1, 670 1, 460 1, 210 935 923 701 591 501
Monthly me Runoff	an dischar	ge			_thousand	ls of acre-feet	376 22. 37	1, 905 117. 1

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1958

Apr. 25 12 m	1, 22 1, 27	125	Apr. 28			May 2—Con.		
Apr. 25 12 m	1. 27	125			i			
12 m 12 p.m 12 p.m				10.65	1, 530	10 a.m	18.84	3,070
12 m 12 p.m 12 p.m			4 p.m	11.24	1,640	12 m	18.90	2,990
12 p.m			12 p.m	11.80	1, 740	8 p.m	19. 10	2,970
12 p.m		100	4			12 p.m	19. 14	2,950
Apr. 26	1.48	129 151	Apr. 29			May 3		l .
- 1	1.48	101	8 a.m	12. 35	1,840	Nauy 5	1	
- 1			4 p.m	13. 10	1, 980	12 m	19, 16	2,880
20 m		i i	12 p.m.	13. 76	2,000	12 p.m	19. 10	2,830
2 a.m	1.60	163	pilling	101.10	_,,,,,			,
4	1.78	182	Apr. 30			May 4		i
	2. 10	215	_		1			
8	2.65	274	6 a.m	14. 24	2,090	8 a.m	19. 10	2,840
	3. 10	321	12 m	14. 52	2, 140	4 p.m	19. 12	2,780
	3.60	384	6 p.m	14.75	2, 180	12 p.m	19.20	2, 790
	4. 10 4. 55	446 502	12 p.m	15.48	2,410	May 5		l
	4.93	550	May 1			May b		1
	5.40	610	Nauy 1			12 m	19, 23	2,800
10	5. 84	673	4 a.m	15, 78	2,470	12 p.m	19.30	2,820
	6. 25	741	8	15. 98	2,500	12 p	20.00	-,
			12 m	16. 16	2,420	May 6		1
Apr. 27			4 p.m	16.48	2,450	4 a.m	19.31	2,810
		· li	8	17.34	2,770	12 m	19.30	2,810
	7.05	881	12 p.m	17.80	2,860	12 p.m	19.24	2,780
	7.60	977		.		12 p.m	10.21	2,.00
	8.20	1,080	May 2			May 7		1
	8.80	1, 190	4	10.90	0.000		19. 18	2,780
	9.45	1,310 1,400	4 a.m 8 a.m	18. 30 18. 65	2, 960 3, 030	12 m	19. 18	2,750
12 p.m	9.93							

96. BIG COLEWA BAYOU NEAR OAK GROVE, LA.

- Location.—Lat 32°47′55′′, long 91°30′05′′, in NE¼ sec. 24, T. 21 N., R. 9 E., on downstream side near center of bridge on State Highway 2, 0.1 mile downstream from Little Colewa Bayou and 8 miles southwest of Oak Grove. Drainage area.—42 sq mi (see Remarks).
- Gage-height record.—Water-stage recorder graph. Datum of gage is at mean sea level, datum of 1929, with 1941 Alluvial Valley and 1944 Birmingham-Corinth supplementary adjustments (levels by Corps of Engineers). Auxiliary water-stage recorder graph at site 5.7 miles downstream. Datum of auxiliary gage is at mean sea level, datum of 1929 with 1941 Alluvial Valley and 1944 Birmingham-Corinth supplementary adjustments.
- Discharge record.—Slope-stage-discharge relation defined by current-meter measurements. Discharge Apr. 24, 26, 28-30, May 3-7 computed by using fall as determined from auxiliary gage as a factor. Stage-discharge relation indefinite Apr. 27, May 1, 2; discharge estimated on basis of fall, weather records, records for nearby stations, and three discharge measurements.
- Maxima.—April-May 1958: Discharge, 1,040 cfs. 8 a.m. May 5; elevation, 91.93 ft 12 m. May 1.

1949 to March 1958: Discharge, 2,050 cfs. Mar. 22, 1955; elevation, 95.22 ft Jan. 4, 1951.

Elevation known since 1940, 95.5 ft Apr. 12, 1947, from records of Corps of Engineers.

Remarks.—Base gage elevations and three discharge measurements furnished by Corps of Engineers. Interconnecting system of bayous and drainage ditches produce an interchange of flow under varying conditions; hence, the drainage limits were more or less arbitrarily determined.

Day	April	Мау	Day	April	Мау	Day	April	May
0	20 14 9. 5 6. 0 4. 5 3. 4 1. 8 1. 6 1. 0	900 900 565 552 1,010 776 420 288 208	11	0.8 .4 .2 .2 24 26 14 7.7 5.9 3.2	239 135 76 24 9. 5 4. 5 2. 4 8. 6 62 589	21	2. 4 2. 0 1. 7 2. 0 416 827 850 604 577 856	705 348 149 36 11 5. 2.
Monthly mea	n dischar	ge			thousand	ls of acre-feet	143 8. 5	26 16.

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1958

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
Apr. 24			Apr. 29—Con.			May 8—Con.		
10 p.m	83. 02 83. 34	1.2 7.7	12 p.m	90.49	761	12 p.m	86. 29	240
12 p.m	83.70	20.0	Apr. 30			May 9		
Apr. 25			6 a.m	90.77	831	12 m	85. 96	207
2 a.m	85, 90	201	12 m	91.00 91.07	864 881	10 p.m 12 p.m	85. 69 85. 90	180 201
4	86.90	301	6 p.m 12 p.m	91. 07	939	12 p.m	OU. 80	201
-6 8	87. 60 87. 88	376 407	May 1	51. Tj		May 10		
12 m	88.30	453	Nay 1			12 m	87. 18	330
4 p.m	88.76	509	12 m	91.93		12 p.m	86. 92	303
6	88.86	522						
8	88. 88	525	May 3			May 19		
10	88.86	522	10	00.10		10 m	09.07	20
12 p.m	88. 82	517	12 m 12 p.m	90. 10 89. 51	571 394	12 m 12 p.m	83. 97 85. 30	32 141
Apr. 26			12 p.m	o9. 01	394	12 p.m	00.00	141
1101.00	į į		May 4			May 20		
2 a.m	88.82	517	• • •					
4	88. 90	528	12 m	89.00	402	4 a.m	86.00	211
6	89.80	680	12 p.m	91.34	1,010	8	88.33	456
8	90. 15 90. 80	706 868	May 5			12 m	90.00 90.46	720 815
12 m	91.14	939	May o			4 p.m 8	90. 40	842
2 p.m.	91. 28	940	8 a.m	91. 48	1,040	12 p.m	90.57	838
4	91, 42	971	4 p.m	91.39	1,010	p	••••	
6	91.52	1,000	12 p.m	91. 18	951	May 21		
12 p.m	91. 60	1,010				_		
Apr. 28		1	May 6			8 a.m	90. 32	783 667
Apr. zo			8 a.m	90.86	871	4 p.m 12 p.m	89. 84 89. 01	494
6 a.m	90.68	709	4 p.m	90.30	707	12 p.m	09.01	404
12 m	90.30	622	12 p.m.	89. 58	546	May 22		l
6 p.m	89.82	520	-					
12 p.m	89.00	332	May 7			12 m	87.64	332
4			12 m	88, 46	398	12 p.m	86. 43	236
Apr. 29			12 p.m	87. 52	337	May 28		
6 a.m	89. 10	438	3.60					
12 m'	89.60	602	May 8			12 m	85. 31	142
6 p.m	90. 18	723	12 m	86. 77	288	12 p.m	84.60	75

97. BIG CREEK NEAR HOLLY RIDGE, LA.

[Stage station]

Location.—Lat 32°27'58", long 91°36'42", in SE¼ sec. 11, T. 17 N., R. 8 E., on upstream side of Illinois Central Railroad bridge and 1 mile east of Holly Ridge.

Drainage area.—171 sq mi (see Remarks).

Gage-height record.—Staff gage read twice daily. Datum of gage is 70.63 ft above mean sea level, datum of 1929, supplementary adjustment of 1941 (levels by Corps of Engineers).

Maxima.—April-May 1958: Gage height, 9.5 ft 4 p.m. May 2.

1940 to March 1958: Gage height, 10.6 ft Apr. 12, 13, 1947.

Remarks.—Records furnished by Corps of Engineers. Interconnecting system of bayous and drainage ditches produce an interchange of flow under varying conditions; hence, the drainage limits were more or less arbitrarily determined.

Gage height, in feet, at 8 a.m. of indicated day 1958

Day	April	Мау	Day	April	May	Day	April	May
1	-2.5 -2.9 -3.5 -3.8 -3.9 -4.0 -4.2 -4.3 -4.4	8.6 9.5 9.4 9.2 9.0 8.8 7.6 6.7	11	-4.4 -4.4 -4.5 -3.5 -3.6 -3.7 -3.8 -3.9	-0.2 -1.1 -1.6 -2.3 -2.8 -3.3 -3.5 -3.6 .5 2.0	21	-4.0 -4.0 -4.1 -3.8 -3.9 -3.7 -1.7 7.1 7.8 8.2	3.8 4.0 2.9 -2.4 -3.1 -3.5 -3.7 -3.9

98. BAYOU LAFOURCHE CUTOFF NEAR OAK RIDGE, LA.

[Stage station]

Location.—Lat 32°36'43", long 91°42'08" in sec. 24, T. 19 N., R. 7 E., near center of span on downstream side of bridge on State Highway 852, 4.5 miles east of Oak Ridge.

Drainage area.—1 sq mi (see Remarks).

Gage-height record.—Water-stage recorder graph.

Maxima.—April-May 1958: Gage height, 79.28 ft 9:30 a.m. May 5.

1947 to March 1958: Gage height, 78.8 ft Apr. 11, 1947.

Remarks.—Records furnished by Corps of Engineers. Interconnecting system of bayous and drainage ditches produce an interchange of flow under varying conditions; hence, the drainage limits were more or less arbitrarily determined. Boeuf River and Bayou LaFourche basins are connected by canal upstream.

Gage height, in feet, at 8 a.m. of indicated day 1958

Day	April	May	Day	April	May	Day	April	May
1	65. 9 65. 5 65. 3 65. 0 64. 8 64. 8 64. 7 64. 6 64. 6	79. 26 79. 0 78. 6 78. 4 79. 28 79. 1 78. 6 78. 6 78. 2 77. 7	11	64. 5 64. 5 64. 5 64. 5 64. 7 64. 7 64. 6 64. 5	77. 2 76. 6 75. 5 73. 9 72. 4 71. 4 70. 0 69. 7 70. 3	21	64. 5 64. 5 64. 5 64. 5 65. 7 73. 6 76. 2 77. 0 77. 2 78. 2	74. 3 74. 6 73. 6 71. 9 70. 5 69. 6 69. 2 68. 7 67. 7 67. 0 66. 6

99. BAYOU LAFOURCHE NEAR IRWIN LAKE, LA.

[Stage station]

Location.—Lat 32°33′25″, long 91°50′28″, in NW¼SE¼ sec. 10, T. 18 N., R. 6 E., on downstream side of bridge on Parish road and 6 miles southwest of Oak Ridge.

Drainage area.—6 sq mi (see Remarks).

Gage-height record.—Water-stage recorder graph.

Maxima.—April-May 1958: Gage height, 69.20 ft 8 p.m. May 1.

1948 to March 1958: Gage height, 68.90 ft Mar. 22, 1955.

Remarks.—Records furnished by Corps of Engineers. Interconnecting system of bayous and drainage ditches produce an interchange of flow under varying conditions; hence, the drainage limits were more or less arbitrarily determined. Boeuf River and Bayou LaFourche basins are connected by canal upstream.

Day	April	Мау	Day	April	May	Day	April	May
1 2 3 4	65. 1 64. 9 64. 7 64. 6	69. 20 69. 1 69. 0 68. 8	12 13 14 15	64. 1 64. 1 64. 1 64. 1	68. 4 68. 1 67. 6 67. 3	23 24 25 26	64. 2 64. 1 64. 9 67. 6	67. 6 67. 2 66. 7 66. 4
5. 6. 7. 8.	64. 5 64. 4 64. 4 64. 3 64. 2	69. 1 69. 0 69. 0 68. 9 68. 8	16 17 18 19 20	64. 3 64. 3 64. 2 64. 1 64. 1	67. 0 66. 8 66. 6 66. 5 66. 6	27	68. 4 68. 6 68. 6 68. 9	66. 3 66. 2 65. 8 65. 6 65. 4

Gage height, in feet, at 8 a.m. of indicated day 1958

100. BAYOU GALION NEAR OAK RIDGE, LA.

[Stage station]

Location.—Lat 32°42′30′′, long 91°47′00′′, in sec. 19, T. 20 N., R. 7 E., on downstream side of bridge on State Highway 133, 5.5 miles north of Oak Ridge. Drainage area.—42 sq mi (see Remarks).

Gage-height record.—Wire-weight gage read twice daily. Datum of gage is 70.08 ft above mean sea level, datum of 1929, supplementary adjustment of 1941 (levels by Corps of Engineers).

Maxima.—April-May 1958: Gage height, 10.2 ft, 8 a.m. Apr. 27.

1941 to March 1958: Gage height, 13.8 ft Apr. 12, 1947.

Remarks.—Records furnished by Corps of Engineers. Interconnecting system of bayous and drainage ditches produce an interchange of flow under varying conditions; hence, the drainage limits were more or less arbitrarily determined.

Day	April	May	Day	April	May	Day	April	May
1	-0.7 -1.0 -1.5 -1.6 -1.7 -1.8 -1.9 -2.0 -2.1 -2.1	9. 6 8. 2 4. 6 6. 9 6. 5 3. 3 1. 0 1 5 1. 3	12	-2.1 -2.1 -2.1 -2.2 -2.2 -2.2 -2.2 -2.2	0.8 .1 2 6 9 -1.1 8 .1 7.4 4.9 2.8	23	-2.1 -2.2 1.5 9.4 10.2 9.5 6.6 6.4	1.8 0 2 5 6 7 8 9

Gage height, in feet, at 8 a.m. of indicated day 1958

101. BAYOU LAFOURCHE NEAR CREW LAKE, LA.

Location.—Lat 32°29′55′′, long 91°55′05′′, in SW¼ sec. 36, T. 18 N., R. 5 E., near center of span on downstream side of bridge on U.S. Highway 80, 1.1 miles upstream from Illinois Central Railroad bridge and 2.5 miles west of town of Crew Lake.

Drainage area.—361 sq mi (see Remarks).

Gage-height record.—Water-stage recorder graph except Apr. 1-20. Datum of gage is 37.08 ft above mean sea level, datum of 1929, supplementary adjustment of 1941 (levels by Corps of Engineers). Auxiliary water-stage recorder graph at site 9.5 miles downstream. Datum of auxiliary gage at mean sea level (auxiliary record furnished by Corps of Engineers).

Discharge record.—Slope-stage-discharge relation defined by current-meter measurements. Discharge Apr. 1-20 estimated on basis of auxiliary gage heights, range line, weather records, and records for nearby stations. Discharge Apr. 21-25 and May 2-31 computed by using fall as determined from auxiliary gage as a factor.

Maxima.—April-May 1958: Discharge, 26,800 cfs 8 a.m. May 2; gage height, 27.50 ft, 8-11 a.m. May 6.

1938 to March 1958: Discharge, 20,800 cfs Mar. 25, 1955 (gage height, 25.28 ft).

Remarks.—Interconnecting system of bayous and drainage ditches produce an interchange of flow; hence, the drainage limits were more or less arbitrarily determined. Boeuf River and Bayou LaFourche basins are connected by canal upstream. In extreme floods considerable flow from the Bayou Bartholomew basin passes this station.

Mean discharge, in cubic feet per second

Day	April	May	Day	April	May	Day	April	May
1	1, 500 1, 500 1, 000 900 800 700 600 500 450 400	25, 400 26, 600 26, 000 25, 400 26, 200 26, 400 26, 000 24, 000 22, 700 21, 600	11 12 12 13 14 15 16 17 17 18 19 20 20	350 300 300 300 300 350 350 350 350 350	20, 700 19, 600 18, 400 16, 700 14, 900 12, 800 10, 700 10, 100 9, 460 10, 500	21 22 23 24 25 26 27 28 29 30 31	348 359 399 361 2,540 11,100 16,000 18,400 20,100 22,700	13, 900 15, 100 14, 000 12, 000 9, 840 8, 550 7, 160 6, 350 4, 900 3, 830 3, 280
Monthly me Runoff	an dischar	ge	1		thousand	s of acre-feet	3, 465 206. 2	15, 910 978

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1958

Hour	Gage beight	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
Apr. 25	5. 67	711 5, 970	Apr. 28	24. 99	18, 500	May 1	26. 75	25, 400
12 p.m Apr. 26	15. 80	5, 970	12 p.m Apr. 29	25, 18	19, 100	12 p.m May 2	27.01	26, 500
12 m 6 p.m 	22. 3 2 23. 23	11, 800 13, 300	12 m 12 p.m Apr. 30	25. 39 25. 74	20, 000 21, 400	8 a.m 4 p.m 12	27. 10 27. 13 27. 15	26, 800 26, 500 26, 300
12 m 12 p.m	24. 28 24. 70	16, 000 17, 400	12 m 12 p.m	26. 02 26. 50	22, 500 24, 400			

102. TENSAS BAYOU NEAR TRANSYLVANIA, LA.

[Stage station]

Location.—Lat 32°42′52′′, long 91°16′07′′, in SW¼SW¼ sec. 17, T. 20 N, R. 12 E., on downstream side of bridge on State Highway 581 and 5 miles west of Transylvania.

Drainage area.—89 sq mi (see Remarks).

Gage-height record.—Staff gage read twice daily. Datum of gage is 67.28 ft above mean sea level, datum of 1929, supplementary adjustment of 1941 (levels by Corps of Engineers).

Maxima.—April-May 1958: Gage-height, 14.7 ft May 2.

1941 to March 1958: Gage height, 17.5 ft Feb. 11, 1946.

Remarks.—Records furnished by Corps of Engineers. Interconnecting system of bayous and drainage ditches produce an interchange of flow under varying conditions; hence, the drainage limits were more or less arbitrarily determined.

Gage height, in feet, at 8 a.m.	of indicated day, 1958
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Day	April	May	Day	April	May	Day	April	May
1	5.8 5.3 5.0 4.8 4.7 4.5 4.4 4.3 4.3	14.3 14.7 14.5 14.3 14.0 13.9 12.4 12.9 12.1	11 12 12 13 14 15 15 16 17 18 19 20 20	4. 2 4. 1 4. 0 4. 0 4. 3 4. 4 4. 3 4. 2 4. 1 4. 1	11. 2 10. 9 10. 4 9. 6 9. 0 8. 4 7. 2 6. 8 7. 0	21 22 23 24 25 26 27 27 28 29 30	4. 0 4. 0 3. 9 5. 2 5. 6 6. 8 11. 7 11. 8 13. 0	7. 5 7. 5 7. 3 6. 9 6. 3 6. 0 5. 8 5. 7 5. 5 6. 3

103. TENSAS BAYOU NEAR ALSATIA, LA.

[Stage station]

Location.—Lat 32°36′41′′, long 91°17′51′′, on line between sec. 24 and sec. 25, T. 19 N., R. 11 E., on piling under bridge on State Highway 580, 7 miles west of Alsatia.

Drainage area.—141 sq mi (see Remarks).

Gage-height record.—Staff gage read twice daily. Datum of gage is at mean sea level, datum of 1929, supplementary adjustment of 1941 (levels by Corps of Engineers).

Maxima.—April-May 1958: Elevation, 79.4 ft May 2.

1946 to March 1958: Elevation, 80.4 ft Nov. 20, 1948.

Remarks.—Records furnished by Corps of Engineers. Interconnecting system of bayous and drainage ditches produce an interchange of flow under varying conditions; hence, the drainage limits were more or less arbitrarily determined.

Elevation, in feet, at 8 a.m. of indicated day, 1958

Day	April	May	Day	April	Мау	Day	April	May
1	67. 0 66. 2 65. 7 65. 3 65. 1 64. 9 64. 7 64. 3 64. 3	79. 0 79. 4 79. 3 79. 0 79. 1 79. 0 78. 6 78. 2 77. 3	11	64. 2 64. 1 64. 0 64. 1 64. 6 64. 9 64. 7 64. 5 64. 4 64. 3	76. 7 75. 8 74. 8 73. 6 72. 2 71. 1 70. 0 69. 4 68. 8 .68. 7	21	64. 5 64. 3 64. 2 64. 0 64. 5 68. 5 72. 5 76. 9 77. 0 78. 2	69. 9 69. 7 69. 4 68. 8 68. 4 67. 6 67. 5 67. 2 66. 9 66. 7

104. TENSAS RIVER AT TENDAL, LA.

Location.—Lat 32°25′55″, long 91°22′00″, in NW1/4 sec. 29, T. 17 N., R. 11 E., near left bank on upstream side of bridge on U.S. Highway 80 at Tendal, 200 ft upstream from Illinois Central Railroad bridge and 3 miles east of Waverly.

Drainage area.—309 sq mi (see Remarks).

Gage-height record.—Water-stage recorder graph. Datum of gage is 50.07 ft above mean sea level, datum of 1929, supplementary adjustment of 1941.

Auxiliary staff gage read twice daily at site 8.5 miles downstream at same datum.

Discharge record.—Slope-stage-discharge relation defined by current-meter measurements. Discharge Apr. 1-3, Apr. 26-May 31 computed by using fall as determined from auxiliary gage as a factor.

Maxima.—April-May 1958: Discharge, 3,900 cfs 11 p.m. May 1; gage height, 23.07 ft 8-10 a.m. May 2.

1935 to March 1958: Discharge, 4,610 cfs Nov. 19, 1948; gage height, 24. 78 ft Nov. 20, 1948.

Maximum stage known, 34.02 ft May 15, 1927 (affected by overflow from Mississippi River).

Remarks.—Interconnecting system of bayous and drainage ditches produce an interchange of flow; hence, the drainage limits were more or less arbitrarily determined.

Mean discharge, in cubic feet per secon	ic feet per second	$c j \epsilon$	cum	in	discharge,	Mean
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Day	April	Мау	Day	April	May	Day	April	Мау
1	608 478 400 342 278 229 190 162 151 145	3, 250 3, 460 3, 260 3, 140 3, 120 3, 040 3, 000 2, 890 2, 720 2, 590	11	139 127 119 110 116 145 150 140 127 121	2, 340 2, 160 1, 770 1, 470 1, 220 1, 010 849 760 761 693	21 22 23 24 25 26 27 27 28 29 30	117 110 103 98 97 178 564 1,580 2,180 2,840	703 693 646 595 534 477 421 411 359 321 287
Monthly me		-			thousand	ls of acre-feet	405 24. 09	1, 579 97. 0 9

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1958

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
Apr. 26			Apr. 29			May 1-Con.		
12 m 12 p.m	7. 33 9. 02	176 249	12 m 12 p.m	17. 24 18. 67	2,090 2,610	10 p.m 11 12 p.m	22. 83 22. 89 22. 94	3, 870 3, 900 3, 890
Apr. 27			Apr. 30			May 2		
12 m 12 p.m	10.70 12.63	513 981	12 m 12 p.m	19.87 20.94	2, 810 3, 120	2 a.m	23.01 23.05	3, 870 3, 760
Apr. 28			May 1			6	23.06 23.07	3, 580 3, 480
6 a.m 4 p.m 12 p.m	13. 94 15. 65 16. 36	1,370 1,810 1,940	12 m 6 p.m 8 p.m	21. 67 22. 06 22. 60	3, 010 3, 250 3, 750	4 p.m 12 p.m	23.05 22.97	3, 300 3, 260

105. BAYOU MACON NEAR KILBOURNE, LA.

Location.—Lat 32°59'35", long 91°15'45", in SW¼SE¼ sec. 8, T. 23 N., R. 12 E., near center of channel on downstream side of bridge on State Highway 585, three-quarters of a mile south of Arkansas-Louisiana State line and 3 miles east of Kilbourne.

Drainage area.—504 sq mi (see Remarks).

Gage-height record.—Water-stage recorder graph. Datum of gage is 77.41 ft above mean sea level (Corps of Engineers bench mark).

Discharge record.—Stage-discharge relation defined by current-meter measurements.

Maxima.—April-May 1958: Discharge, 4,740 cfs 12 m. May 5 (gage height, 24.35 ft).

October 1957 to March 1958: Discharge, 2,980 cfs 1 a.m. Nov. 25, 1957 (gage height, 21.85 ft).

Remarks.—Interconnecting system of bayous and drainage ditches produces an interchange of flow under varying conditions; hence, the drainage limits were more or less arbitrarily determined.

Day	April	Мау	Day	April	May	Day	April	Мау
1	1, 050 990 941 904 864 820 778 733 681 632	3, 850 3, 940 3, 780 4, 160 4, 700 4, 540 4, 380 4, 280 4, 210 4, 430	11	587 549 513 484 519 520 482 471 480 492	4, 390 4, 320 4, 280 4, 240 4, 200 4, 150 4, 100 4, 060 4, 080 4, 200	21 22 23 24 25 26 27 27 28 29 30 31 31 32 29 31 31 32 32 32 32 31 32 32 32 32 32 32 32 32 32 32 32 32 32	501 503 496 490 1, 340 2, 520 3, 020 3, 080 3, 280 3, 640	4, 240 4, 220 4, 210 4, 150 4, 150 4, 100 3, 930 3, 800 3, 640 3, 450
Monthly me Runoff	an dischar	ge			thousand	is of acre-feet	1, 079 64. 19	4, 137 254. 4

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1958

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
Apr. 23			Apr. 28			May 4		
12 p.m	6.06	486	12 m 12 p.m	22. 03 21. 94	3, 080 3, 040	10 a.m 12 m 6 p.m	24. 20	3, 680 4, 350 4, 600
6 a.m 6 p.m	5. 99 5. 87	479 467	Apr. 29	22.00	3, 070	12 p.m May 5	24. 28	4, 670
12 p.m	7. 10	595	8 12 m 4 p.m 8	22. 37 22. 43 22. 68 22. 77	3, 240 3, 260 3, 400 3, 450	12 m 12 p.m	24. 35 24. 25	4, 740 4, 640
2 a.m 4 6	8. 15 9. 08 10. 19	706 809 931	12 p.m	22. 86	3, 510	May 6	24. 13	4,540
8 10 12 m 2 p.m	11. 25 12. 32 13. 20 14. 30	1, 060 1, 210 1, 340 1, 520	12 m 12 p.m	23. 07 23. 24	3, 650 3, 770	12 p.m May 7	24. 03	4, 450
6 8 10	15. 81 16. 33 16. 81	1, 780 1, 870 1, 950	May 1	23, 30	3, 820	12 m 12 p.m	23. 95 23. 89	4, 380 4, 320
12 p.m	17. 21	2, 020	8 12 m 4 p.m	23. 30 23. 28 23. 26	3. 820 3. 800 3, 790	May 8	23. 84	4, 280
4 a.m 8 12 m	17. 91 19. 07 20. 44	2, 140 2, 350 2, 600	8 12 p.m	23. 49 23. 51	3, 970 3, 990	12 p.m May 9	23. 79	4, 230
4 p.m 8 12 p.m	21. 04 21. 44 21. 67	2, 730 2, 840 2, 930	May 2 12 m 12 p.m	23. 46 23. 36	3, 950 3, 870	12 m 10 p.m 12 p.m	23. 75 23. 74 23. 98	4, 200 4, 190 4, 400
Apr. 27			May 3			May 10		, ,
8 a.m	21. 86 21. 92 22. 08	3, 010 3, 030 3, 110	12 m 12 p.m		3, 760 3, 730	12 m 12 p.m	24. 03 24. 00	4, 450 4, 420

106. BAYOU MACON NEAR OAK GROVE, LA.

[Stage station]

Location.—Lat 32°51'33'', long 91°20'29'', in NE¹/₄ NE¹/₄ sec. 33, T. 22 N., R. 11 E., on downstream side of bridge on State Highway 2, 3 miles east of Oak Grove.

Drainage area.—582 sq mi (see Remarks).

Gage-height record.—Wire-weight gage read twice daily. Datum of gage is 68.11 ft above mean sea level, datum of 1929, supplementary adjustment of 1941 (levels by Corps of Engineers).

Maxima.—April-May 1958: Gage height, 23.2 ft May 5.

1946 to March 1958: Gage height, 24.7 ft Apr. 11, 1947.

Remarks.—Records furnished by Corps of Engineers. Interconnecting system of bayous and drainage ditches produce an interchange of flow under varying conditions; hence, the drainage limits were more or less arbitrarily determined.

Gage her	aht in	feet.	at. 8	a.m. of	findicated	dau	1958
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Day	April	May	Day	April	May	Day	April	Мау
1	12. 3 11. 7 11. 2 10. 8 10. 4 10. 0 9. 8 9. 4 9. 1 8. 5	22. 8 22. 8 22. 5 22. 4 23. 2 23. 0 22. 8 22. 6 22. 5 22. 8	11	8. 0 7. 8 7. 4 7. 1 7. 4 7. 6 7. 3 6. 9 6. 8 6. 8	22. 7 22. 6 22. 4 22. 3 22. 2 22. 2 22. 2 22. 2 22. 2	21	6. 9 7. 0 7. 0 6. 8 11. 0 18. 8 21. 6 21. 6 21. 7 22. 4	22. 7 22. 6 22. 4 22. 3 22. 3 22. 2 22. 2 22. 2 22. 1 22. 0 21. 9 21. 8

107. BAYOU MACON NEAR DELHI, LA.

Location.—Lat 32°27'20", long 91°28'30", in SE¼ sec. 18, T. 17 N., R. 10 E., near right bank on downstream side of pier of bridge on (old) U.S. Highway 80, 150 ft upstream from Illinois Central Railroad bridge and 1 mile east of Delhi.

Drainage area.—782 sq mi (see Remarks).

Gage-height record.—Water-stage recorder graph. Datum of gage is 50.05 ft above mean sea level, datum of 1929, supplementary adjustment of 1941 (levels by Corps of Engineers). Auxiliary staff gage read twice daily at site 7.5 miles downstream at different datum.

Discharge record.—Slope-stage-discharge relation defined by current-meter measurements. Discharge Apr. 1-16, 18-21, Apr. 25-May 31, computed by using fall as determined from auxiliary gage as a factor.

Maxima.—April-May 1958: Discharge, 4,760 cfs 10 p.m. May 1; gage-height, 26.00 ft May 6, 7.

1935 to March 1958: Discharge, 5,460 cfs Apr. 14, 1947; gage height, 25.58 ft May 20, 21, 1953.

Maximum stage known, 37.5 ft in March 1882 from records of U.S. Weather Bureau.

Remarks.—Interconnecting system of bayous and drainage ditches produce an interchange of flow under varying conditions; hence, the drainage limits were more or less arbitrarily determined.

Mean discharge, in cubic feet per second

Day	April	Мау	Day	April	Мау	Day	April	May
1	2, 130 1, 920 1, 800 1, 550 1, 370 1, 240 1, 140 1, 070 969 877	4, 600 4, 610 4, 430 4, 300 4, 300 4, 260 4, 160 4, 100 4, 070 4, 060	11	809 745 702 663 684 759 792 733 682 642	4, 050 4, 020 4, 010 3, 990 3, 990 3, 960 3, 960 3, 950 3, 950	21 22 23 24 25 26 27 28 29 30 31	645 674 674 663 855 1,980 3,520 4,140 4,210 4,500	3, 980 4; 000 3, 990 4, 000 3, 980 3, 970 3, 950 3, 950 3, 950 3, 950 3, 950
Monthly me	an dischar	ge			thousand	ls of acre-feet	1, 438 85. 56	4, 080 250. 9

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1958

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
Apr. 25			Apr. 28			May 1		
4 a.m. 8	5. 27 5. 40 5. 77 6. 28 6. 94 7. 60	685 716 803 916 1, 070 1, 220	6 a.m	18. 67 19. 18 19. 50 19. 77	4, 120 4, 190 4, 160 4, 160	4 a.m 8 12 m 2 p.m 4	23. 65 23. 90 24. 10 24. 20 24. 28 24. 62	4, 580 4, 550 4, 560 4, 600 4, 610 4, 570
Apr. 26 8 a.m	9. 29 11. 74 13. 94	1, 610 2, 280 2, 880	6 a.m	20. 01 20. 38 20. 87 21. 49	4, 140 4, 170 4, 230 4, 410	8	24. 87 24. 97 25. 02 25. 19 25. 32	4, 720 4, 760 4, 740 4, 610 4, 550
6 a.m	15. 17 16. 11 17. 18 18. 08	3, 240 3, 510 3, 860 4, 050	6 a.m	21. 98 22. 43 22. 76 23. 27	4, 540 4, 580 4, 440 4, 510	12 p,	20. 02	1,000

SABINE RIVER BASIN

108. SABINE RIVER NEAR EMORY, TEX.

Location.—Lat 32°46′, long 95°48′, on left bank at downstream side of bridge on State Highway 19, 3.0 miles upstream from Giladon Creek, 7.5 miles south of Emory, Rains County, 8.0 miles downstream from McBees Creek, and at mile 501.

Drainage area.—965 sq mi.

Gage-height record.—Water-stage recorder graph. Datum of gage is 350.28 ft above mean sea level, unadjusted (Texas Reclamation Department bench mark).

Discharge record.—Stage-discharge relation defined by current-meter measuremark).

Maxima.—April-May 1958: Discharge, 35,400 cfs 1 p.m. Apr. 28 (gage height, 20.27 ft).

1952 to March 1958: Discharge, 74,000 cfs Apr. 27, 1957 (gage height, 25.06 ft).

Maximum stage since at least 1900, 25.7 ft in June 1943, from information by local resident and Texas Highway Department.

Mean discharge, in cubic feet per second

Day	April	Мау	Day	April	Мау	Day	April	May
1	5, 550 3, 150 1, 240 231 114 124 89 58 50 49	16, 100 19, 600 22, 000 19, 400 18, 700 11, 100 5, 240 2, 350 733 161	11 12 12 13 14 15 15 16 17 17 18 19 20 20	48 61 82 171 622 885 1, 260 820 208 112	94 70 56 46 40 46 54 48 41 31	21	144 257 400 308 156 951 15,000 31,500 22,600 15,900	24 20 13 8. 0 5. 6 3. 0 1. 4 1. 0 . 7 . 5
Monthly me Runoff Runoff	an dischar	~			thousand	s of acre-feet inches	3, 405 202, 6 3, 95	3, 742 230, 1 4, 49

109. SABINE RIVER NEAR MINEOLA, TEX.

Location.—Lat 32°36'45'', long 95°29'10'', near center of main channel on downstream side of pier of bridge on U.S. Highway 69, 3.2 miles south of Mineola, Wood County, 4.5 miles upstream from International-Great Northern Railroad bridge, and at mile 461.

Drainage area.—1,445 sq mi.

Gage-height record.—Water-stage recorder graph. Datum of gage is 304.16 ft above mean sea level, datum of 1929.

Discharge record.—Stage-discharge relation defined by current-meter measurements.

Maxima.—April-June 1958: Discharge, 36,000 cfs 5 a.m. Apr. 30 (gage height, 20.60 ft).

1939 to March 1958: Discharge, 76,000 cfs Apr. 1, 1945; gage height, 24.37 ft June 8, 1943.

Maximum stage since at least 1915, that of June 8, 1943 (discharge, 64,100 cfs).

					Joot po.			
Day	April	May	Day	April	Мау	Day	April	Мау
1	1, 370 1, 610 2, 290 2, 700 3, 910 2, 240 1, 010 386 270 177	30,000 24,600 24,600 26,800 25,300 23,200 19,600 12,000 8,000 6,300	11	154 161 158 403 972 1, 130 1, 190 1, 280 1, 340 1, 280	4, 380 2, 020 857 336 193 201 140 123 117 105	21	876 512 412 436 486 1, 660 13, 200 23, 200 31, 000 34, 000	88 78 66 56 50 44 39 35 33 29 25
Monthly me Runoff					thousand	is of acre-feetinches	4, 327 257. 5 3. 34	6, 755 415. 4 5. 39

Mean discharge, in cubic feet per second

110. LAKE FORK SABINE RIVER NEAR QUITMAN, TEX.

Location.—Lat 32°46′, long 95°28′, near center of main channel at upstream side of bridge on State Highway 37, half a mile downstream from Dry Creek and 2.5 miles south of Quitman, Wood County.

Drainage area.-586 sq mi.

Gage-height record.—From graph based on twice-daily wire-weight gage readings. Datum of gage is 317.42 ft above mean sea level, datum of 1929.

Discharge record.—Stage-discharge relation defined by current-meter measurements.

Maxima.—April-May 1958: Discharge, 39,400 cfs 1 a.m. Apr. 28 (gage height, 24.38 ft, from floodmark).

1924-26, 1939 to March 1958: Discharge, 75,600 cfs Mar. 30, 1945 (gage height, 29.85 ft, from floodmark), from rating curve extended above 49,000 cfs.

Maximum stage since at least 1895, that of Mar. 30, 1945.

Mean discharge, in cubic	: feet	per	second
--------------------------	--------	-----	--------

Day	April	Мау	Day	April	Мау	Day	April	Мау
1	2, 920 1, 800 1, 190 494 240 163 128 96 96 122	18, 700 15, 400 9, 220 10, 500 8, 600 4, 040 2, 360 1, 540 760 348	11	166 208 216 462 866 844 1,030 1,080 660 232	184 170 135 110 93 116 248 232 107 71	21	216 282 416 478 584 3, 590 26, 200 32, 800 13, 800	56 47 40 32 28 26 21 28 34 54
Monthly me Runoff		_			thousand	ls of acre-feet inches	3, 506 208. 6 6. 67	2, 366 145. 5 4. 65

111. BIG SANDY CREEK NEAR BIG SANDY, TEX.

Location.-Lat. 32°36', long 95°06', near center of channel on downstream side of pier of bridge on State Highway 155, 0.8 mile upstream from St. Louis Southwestern Railway Lines bridge, 1.3 miles northeast of Big Sandy, Upshur County, and 7.1 miles upstream from mouth.

Drainage area.—236 sq mi.

Gage-height record.—Water-stage recorder graph. Datum of gage is 278.38 ft above mean sea level, datum of 1929, supplementary adjustment of 1942.

Discharge record.—Stage-discharge relation defined by current-meter measurements. Stage-discharge relation affected by backwater from Sabine River Apr. 29-May 15, 1958.

Maxima.—April-May 1958: Discharge, 12,900 cfs 9 a.m. Apr. 28 (gage height, 21.30 ft).

1939 to March 1958: Discharge, 38,000 cfs Mar. 31, 1945 (gage height, 24.1 ft, from floodmark), from rating curve extended above 13,000 cfs on basis of rainfall-runoff study for this and adjoining basins.

Maximum stage since at least 1905, that of Mar. 31, 1945.

Day	April	Мау	Day	April	Мау	Day	April	Мау
1	269 301 358 349 309 253 208 179 164 159	3, 150 4, 500 3, 700 2, 300 1, 600 1, 300 850 600 460 360	11	154 144 134 184 215 229 285 459 507 388	290 250 215 205 190 174 159 139 129	21	293 237 201 169 159 386 2, 560 11, 400 7, 660 3, 710	122 114 106 102 94 92 87 94 96 85
		- 				ds of acre-feet inches	1, 067 63. 52 5. 05	703 43, 23 3, 43

112. SABINE RIVER NEAR GLADEWATER, TEX.

Location.—Lat 32°32′, long 94°57′, on right bank on downstream side of pier of bridge on U.S. Highway 271, half a mile downstream from Glade Creek, 1 mile southwest of Gladewater, Gregg County, and at mile 398.

Drainage area.-2,846 sq mi.

Gage-height record.—Water-stage recorder graph. Datum of gage is 243.85 ft above mean sea level (Texas Reclamation Department bench mark based on Geological Survey datum).

Discharge record.—Stage-discharge relation defined by current- meter measurements. Discharge computed by using rate-of-change in stage as a factor.

Maxima.—April-May 1958: Discharge, 53,500 cfs 5 a.m. May 3 (gage height, 39.90 ft).

1932 to March 1958: Discharge, 138,000 cfs Apr. 2, 1945 (gage height, 44.16 ft, from floodmark), from rating curve extended above 91,000 cfs.

Maximum stage since at least 1914, that of Apr. 2, 1945.

Day	April	May	Day	April	May	Day	April	May
1	2, 260 2, 280 2, 440 2, 710 3, 170 3, 550 3, 830 3, 890 3, 920 2, 860	44, 900 51, 300 52, 400 48, 000 42, 000 37, 700 33, 800 29, 700 25, 200 20, 800	11	1, 850 1, 180 858 990 1, 250 1, 540 1, 820 2, 060 2, 330 2, 540	17, 000 14, 200 11, 900 10, 000 8, 630 6, 830 5, 390 3, 750 2, 560 1, 750	21 22 23 24 25 26 27 27 28 29 30	2, 680 2, 790 2, 760 2, 590 2, 940 6, 380 6, 460 13, 000 32, 200	1, 110 748 594 512 452 412 382 422 492 532 552
Monthly me Runoff		_			_thousand	ls of acre-feet inches	4, 039 240. 3 1. 58	15, 290 940. 2 6. 20

SUMMARY OF FLOOD STAGES AND DISCHARGES

Maximum flood flows at stream-gaging stations in the area covered by this report are summarized in table 1. The reference numbers correspond to those on figures 1 and 12-14.

The first column under maximum floods shows the period of known floods prior to April 1958. This period does not necessarily correspond to that in which continuous records of discharge were obtained, but in many cases it extends back to an earlier date. More than one period of known floods are shown for some stations. Periods are shown when they can be associated with a maximum stage even though the corresponding discharge may not be known—a second period of known floods is then given in which the maximum discharge and stage are both known.

The second column under maximum floods shows the year in which the maximum stage or discharge occurred.

The third column under maximum floods gives the date of the maximum stage or discharge during the flood period April-May 1958.

Some of the stages and discharges listed in table 1 are affected by regulation, overflow, diversions, or other factors. These effects are indicated in footnotes or are described in the corresponding station description in the section, "Stages and discharges at stream-gaging stations."

The results of discharge measurements at many stage stations operated by the Corps of Engineers are tabulated in "Stages and Discharges of the Mississippi River and Tributaries in the Vicksburg District, 1958" or in "Stages and Discharges of the Mississippi River and Tributaries and other streams and waterways in the New Orleans district for 1957–1958."

Table 1.—Flood stages and discharges, Louisiana and adjacent States

		8		(-6	,				
						Maximum floods	8		
Z	Permanent station	Stream and place of determination	Drainage area	Prior to April 1958	89		Gage	Discharge	arge
	number		(sq mi)	Period	Year	April-May 1958 (Date)	height (ft)	Cfs	Ratio to Q2.33
			PA	PART 2B					
		Pearl River basin							
-	4820	Pearl River at Edinburg, Miss	868	1902–58.	1902 1935		29.0	31, 400	
63	4825	Lobutcha Creek near Carthage, Miss	313	1937–58	1921	May 5.	24.85 82.85 82.00	11,600	
က	4830	Tuscolameta Creek at Walnut Grove, Miss	411	1939–58	1950	May 2	. 85. 28.5 28.5	34,460 94,600 96,000	
4	4840	Yockanookany River near Kosciusko, Miss	314	1938-58-	1951	May I	18.08	19,300	
īĊ.	4845	Yockanookany River near Ofahoma, Miss	484	1943–58	1921	May 2	20.5	20°4 30°4 30°4	
9	4850	Pearl River at Meeks Bridge near Canton, Miss	2, 780	1932	1932 1951	May 9	6.89.89 4.89.89	57,800 57,800	
7	4855	Pelahatchie Creek near Fannin, Miss	202	1880-1958	1950 1955	May 6	23.5 23.5 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25	39,400 (1) 13,500	
∞	4860	Pearl Rivet at Jackson, Miss	3, 100	1901–58	1902	May 1	20.30 37.2 34.23	80,800 38,900 38,900	
			P.	PART 7					
		Yazoo River basin							
6	2800	Tallahatchie River near Lambert, Miss	2 1,980	1932 1935–58	1932 1937		35.8	32, 800	
10	2810	Tallahatchie River at Swan Lake, Miss	5, 130	1904-58.	1932 1933	May 3 May 4	30. 54 37. 0 30. 40	11,600	
	_			_		May 4		28,300	

ď	5 1 1 1	1 1 1 1	8 		F. 1. 9	2.0	-		I. 3	1.4	1.4	1.2		1.0			1.2	?
(1) 2, 420 1, 330	72,900	87, 700 20, 700	9, 900	(1) 49, 400	97,800 (E)	58, 600 52, 500		400,000	71,400	297,000	145, 000 75, 400	44, 600 86, 000 76, 000 40, 700	92,500	110,000	124, 900 120, 000	68, 600 46, 900	31,200 7,200	1, 400
14.05 12.06 8.80	40.10 34.15	3 27. 43	16.62	888 888	(8)	39.65 39.74		43.2	6.4.4; 6.2.0;	40.78 34.25	45.7×	41. 05 39. 7 39. 22	25. 01 26. 4 25. 80	. 25.52 5.62 5.62 5.63 5.63	38. 73 37. 70	20.47	21.2.15 19.9.9 2.93 2.93 2.93	77 '17
Apr. 29	May 10	May 10	тиву о		May Z	May 5		34.	May 6	May 3.	May 6	May 2 May 4	May 4	May 3.	May Z	May 4.	May 3	, MAN 1
1955 1957	1882 1932	1946 1946		1926 1951	1912,	1921		1908	1915 1938	1938	1950	1938 1949	1915 1945 1950	1947	1915 1945	1947	1920 •1945	
1950-58 1956-58	1882_ 1904-58	1935–58		1926_ 1936–58	1912, 1927	1936–58		1905-11, 1936-58	1915	1936-58	1929-31, 1944-58	1938. 1946-68	1915. 1924-25, 1929-68.	1947-58	1915. 1930–58	1938-58	1920- 1938-58	-
14.4	7, 450	767		1,460	4 2, 810			6 44, 531	1, 423	6 48, 030	645	1, 226	787	181	2,674	361	124	•
Thompson C	Yazoo River at Greenwood, Miss	Sunflower River at Sunflower, Miss	Big Black River basin	Big Black River at Pickens, Miss	Big Black River near Bovina, Miss.		Ked Kiver basin	Red River at Arthur City, Tex	Klamichi River near Belzoni, Okla	Red River at Index, Ark	Little River near Wright City, Okla	Little River below Lukfata Creek near Idabel, Okla.	Mountain Fork River near Eagletown, Okla	Rolling Fork near DeQueen, Ark	Little River near Horatio, Ark	Cossatot River near DeQueen, Ark	Saline River near Dierks, Ark	
2865	2870	2885		2895	2900	-		3355	3365	3370	3375	3385	3390	3395	3400	3405	3410	
=	12	13		14	15			91	17	18	19	8	717	83	83	24	28	٠,

See footnotes at end of table.

Table 1.—Flood stages and discharges, Louisiana and adjacent States—Continued

		Tanta in a took study of the	create goo,	I word dealies and accounties, wordened and adjacent Source	and com	ce construct			
						Maximum floods	ls		
Š.	Permanent station	Stream and place of determination	Drainage area	Prior to April 1958	28		Gage	Discharge	arge
	number		(sq mi)	Period	Year	April-May 1958 (Date)	height (ft)	Cfs	Ratio to Q2.33
			PART 7	PART 7-Continued					
		Red River basin—Continued							
88	3415	Red River at Fulton, Ark	6 52, 380	1927-58	1938 1945	3,000	37.4	338,000	
- 25	3495	South Sulphur River near Cooper Tex	597	1049_58	1953	May 6	<u> </u>	23 800	P :
86	3430	North Sulphur River near Conner. Tex	92.6	1915–58	194	May 1	80.8	17,400	1.4
3	200	TOTAL TOTAL TROM COOKER'S TOTAL TOTA		1949-58	1953	More	88.8	42,800	
83	3432	Sulphur River near Talco, Tex	1, 365	1908–58	1908, 1914 1957	May 4	27.5 24.60	44, 900	
8	3435	Whiteoak Creek near Talco, Tex	494	1870-1968 1949-58	1945	May 3.	25.69 25.3 18.98	23,300	1.9
31	3442	Texarkana Reservoir near Texarkana, Tex	3,443	1953-58	1967	Apr. 28	19.52 7.250.36	26, 600 8 1, 700	2.2
33		Posten Bayou near Wardview, La		1956-58	1957	May 12	7 249.82	8 1,651 (!)	
83	3444	Red River near Hosston, La.	7 57, 041		1	May 7	27.8	214,000	
\$ °	3440	Cypress creek near Pittsburg, 1ex	8 1	1895–1968 1943–58	1945		28.83 18.83	58, 500 5, 500	6.5
8	3450	Boggy Creek near Daingerheld, Tex	7.2	1943-58	1945		17.5	15,900	
88	3459	Lake 0' the Pines near Jefferson, Tex	820			Apr. 27 May 7	7 239.71	28,900 8,515.8	10.1
70	3400	Cypress Creek near Jenerson, Tex	eg S	1924–58	1945		10 212. 48	(v) 57, 100	
88	1	Caddo Lake near Mooringsport, La	2, 744	1921-58	1945	Apr. 29	7 181.8 7 182.59	8, 190 8, 745. 5 8, 783. 3	e.

i ia		о ic	, i i <u>z</u>		i 02 44 11	, .,		, ,	, , .·	4	, 18		, , ,			eo i		
86	1	3.0		ÿ	14	0.1	ri i					4						
1,800	8, 200	38, 900 38, 900 38, 400	3, 750	303, 000	249,000 36,400 2,340	40,200 2,000 2,000 2,000	# (E) (E)	EE	12, 600 (3,3)	18,600 8 157.2	8, 130 8, 250		12 20, 000	12 32, 600 (1)	14,800	1,460 8 56.5	8 2, 402. 1	140, 000 13 55, 200
17.23	22. 72 25. 73	27. 51 35. 65	35.65 11.24	45.9	22.33.8 4.02.29.3	288	7166.97	7 168.15 10.68	(11) 22, 16	7 187.01	15.08	38.8. 3.1.1.	<u> </u>		26.28 20.28 20.28	16.46 7.153.00		
Apr. 28	Apr. 29	Apr. 29	May 5		May 8.	Apr. 20	May I	May 4, 5	May o	May 2	Apr 97		May 4, 5.	May 4 May 8	May I	May 4	Merical Money	May 2
1945 1957	1945 1947	1945	1957	1849 1945	1945	1930	1933 1945	1953	1905 1940	1953	1957	1933 1941	1953 1957	1946	1933 1946	1953	1961	1923
1944-58	1942–58	1942-58	1955-58	1849_ 1928-58	1956-58	1928-31, 1936-58	1933_ 1939–68	1938-58-	1906.	1949-58	1956-58	1933_ 1939–58	1948-58	1938-58	1933_ 1938~58	1946-58.	1962-58	1903–5, 1922–58
116	364	3, 137	78	7 60, 613	605 66.9	1,097	45.3		276	683	133	926	2, 628		62	266	1,105	1, 562
3470 Kelly Bayou near Hosston, La	Black Bayou near Gilliam, La	Twelvemile Bayou near Dixie, La	Paw Paw Bayou near Greenwood, La	Red River at Shreveport, La	Bayon Dorcheat near Springhill, La. Flat Lick Bayon near Leton, La.	Bayou Dorchest near Minden, La.	Flat River (Shell Bayou) near Shreveport, La	Alligator Bayou near Shreveport, La	Bodcau Bayou near Sarepta, La	Bodcau Bayou Reservoir near Shreveport, La	Cypress Bayou near Benton, La	Red Chute Bayou near Shreveport, La	Loggy Bayou near Ninock, La	Bayou Pierre near Gayle, La	Boggy Bayou near Keithville, La	Wallace Lake near Shreveport, La	Lake Ouachita near Hot Springs, Ark	Ouachita River near Malvern, Ark
3470	3475	3480	3482	3485	3487 3488	3490			3495		3498		3200	1	3510	1	3575	3595
-	_		~		410			~				^1					_	

See footnotes at end of table.

Table 1.—Flood stages and discharges, Louisiana and adjacent States—Continued

		Treat to the condition and the control deci-	contain good		200	200000000000000000000000000000000000000			
						Maximum floods	8		
Š	Permanent station	Stream and place of determination	Drainage area	Prior to April 1958	28		Gage	Discharge	arge
	number		(sq mi)	Period	Year	April-May 1958 (Date)	height (ft)	Cfs	Ratio to Q1.33
			PART 7-	PART 7—Continued					
		Red River basin—Continued							
- 62	3298	Caddo River near Alpine, Ark	312	1938-58	1945	0	30.16	64, 200	
9	3600	Ouachita River at Arkadelphia, Ark	2,311	1929–58	1945	May 2	30.3	13170,000	0 T
61	3605	Lake Greeson near Murfreesboro, Ark	237	1949-58	1953	May o	7 557.84	8 359.3	: :
62	3608	Muddy Fork Creek near Murfreesboro, Ark	121	1940-58	1945	May 0.	29.7	47, 100	
63	3610	Little Missouri River near Murfreesboro, Ark	380	1927. 1928-31, 1937-58.	1927 1945	More	20. 20 21 19.84	120,000 120,000	0 1 1
64	3615	Antoine River at Antoine, Ark	181	1905 1950–58	1905 1957	TATA T	29.7 24.00	16,000 16,000 16,000	7
65	3616	Little Missouri River near Boughton, Ark	1,068	1937–58	1945	May 2	6 75 6 6 75 6 6 75 6	111,000	7.7
99	3620	Ouachita River at Camden, Ark	5, 391	1882	1882 1945	May o	46.44 46.02 46.03	243,000	7
29	3621	Smackover Creek near Smackover, Ark	377	1938-58	1945	May o	19.8 19.8	16,50	7
89	3625	Moro Creek near Fordyce, Ark	216	1938 1951–58	1938 1957	Apr. 2/	21.21 15.1 14.35	25, 000 15, 800 11, 100	# ! !
69	3630	Saline River at Benton, Ark	269	1937	1927 1939	May 2	16.47 30.5 26.1	26,800 (1) 67,000	4.2
2	3632	Saline River and Gamble Creek near Sheridan, Ark	1, 129	1938-58	1938	May 3	21. 40 21. 0	75,400 000,000 000,000	1.0
12	3634	Hurricane Creek near Sheridan, Ark	270	1938-40, 1946-58	1950	May 3	15. 4 15. 4 14. 48	45,000 (1) 16,000	1.2

3641.5 Bayou Bartholomew near Star City, Ark 215 1941-68 1963 May 2 25.5 7.00 3641.6 Bayou Bartholomew near McGebee, Ark 592 1888-86 1865 May 21 25.5 5.700 3641.9 Bayou Bartholomew near Wilmot, Ark 1.17 1825-86 1868-86 1867 May 21, 22 25.8 3, 500 3645 Bayou Bartholomew near Wilmot, Ark 1.157 1968-86 1867 May 21, 22 25.8 3, 500 3645 Bayou Bartholomew near Deforman, La 1.645 1968-86 1967 May 21, 22 25.8 14, 400 3646 Bayou de Loutre near De Loutre, La 1.645 1968-86 1967-86 1967-87 1967 1967 Apr. 27 25.9 14, 400 3649 Big Creek near Vietna, La 1.645 1968-86 1967-86 1967 Apr. 27 19.7 19.7 19.0 36.0 19.0 36.0 19.0 36.0 19.0 36.0 19.0 36.0 19.0 36.0 19.0		3635	3635 Saline River near Rye, Ark	2,062	1927. 1937–58.	1927 1949		30.5	73,000	
Bayou Bartholomew near McGehee, Ark 582 1988-86. 1983 May 21, 22 28, 38 Bayou Bartholomew at Wilmot, Ark 1, 170 1825-86. 1825 May 21, 22 28, 34 Bayou Bartholomew at Wilmot, Ark 1, 187 1955-86. 1966 May 22, 12 28, 34 Chemin a Haut Bayou near Beekman, La. 1, 645 1962-86. 1966 May 22, 22 28, 34 Bayou Bartholomew near Beekman, La. 1, 645 1982-81, 1938-68. 1946 Apr. 27 25, 72 Bayou de Loutre near Laran, La. 82 1946-88. 1967 Apr. 27 25, 23, 30 Bayou de Loutre near Dubach, La. 82 1946-88. 1967 Apr. 27 11, 10 Bayou D'Arbonne near Dubach, La. 83 1946-88. 1945 Apr. 27 45, 58 Middle Fork Bayou D'Arbonne near Bernice, La. 17 1946-88. 1945 Apr. 27 11, 45 Cornie Bayou near Three Creeks, Ark 46 1946-88. 1945 Apr. 27 11, 45 Bayou D'Arbonne near Farmerville, La. 1, 462 1946-88.		3641.2	Bayou Bartholomew near Star City, Ark	215	1941-58	1953	May 6	23.97	5,2,4 2,869	2.2
Bayou Bartholomew at Wilmot, Ark 1,170 1925-58 1969 May 21,22 28,14 Bayou Bartholomew near Jones, La 1,187 1965-68 1966 May 21,22 28,24 Chemin a Haut Bayou near Jeekman, La 1,145 1965-68 1967 Apr. 27 25,23 Bayou Bartholomew near Beekman, La 1,41 1966-88 1967 Apr. 27 25,23 Bayou de Loutre near Laran, La 141 1966-88 1967 Apr. 27 25,23 Bayou de Loutre near Dubach, La 302 1946-88 1967 Apr. 27 18,53 Bayou D'Arbonne near Dubach, La 68.9 1966-88 1967 Apr. 27 48,53 Middle Fork Bayou D'Arbonne near Bernice, La 178 1966-88 1966-88 1967 Apr. 27 42,53 Orney Bayou near Lillie, La 180 1966-88 1967 Apr. 27 42,23 Little Corney Bayou near Lillie, La 1,470 1926-88 1967 Apr. 27 19,53 Bayou D'exhonne near Farmerville, La 1,470 1926-88 1967 <t< td=""><td></td><td>3641.5</td><td>Bayou Bartholomew near McGehee, Ark</td><td>592</td><td>1938-58</td><td>1953</td><td>Moy 11</td><td>22.22</td><td>5,700 20,700</td><td>* C</td></t<>		3641.5	Bayou Bartholomew near McGehee, Ark	592	1938-58	1953	Moy 11	22.22	5,700 20,700	* C
Byou Bartholomew near Jones, La 1,187 1985-98 1986 May 21,22 38.4 Chemin a Haut Bayou near Beekman, La 1,645 1982-98 1982 Apr. 27 12. 8 Bayou Bartholomew near Beekman, La 1,141 1966-58 1966-78 1967 Apr. 27 25.23 Bayou de Loutre near Laran, La 68.9 1966-88 1967 Apr. 27 10.00 Bayou de Loutre near Dubach, La 355 1940-88 1967 Apr. 27 10.00 Bayou de Loutre near Dubach, La 68.9 1964-88 1967 Apr. 27 45.56 Bayou D'Arbonne near Dubach, La 68.3 1968-88 1965 Apr. 27 45.56 Middle Fork Bayou D'Arbonne near Bernice, La 17 1966-88 1966-88 1966 Apr. 27 45.27 Corney Bayou near Lillie, La 18 1966-88 1967 Apr. 27 11.58 Bayou D'Arbonne near Farmerville, La 1,470 1926-88 1967 Apr. 27 11.58 Bayou D'Arbonne near Farmerville, La 1,470 1926-88 <td< td=""><td></td><td>3641.9</td><td>Bayou Bartholomew at Wilmot, Ark</td><td>1, 170</td><td>1925-58</td><td>1932</td><td>May 23</td><td>26.3</td><td>2,100</td><td>2.0</td></td<>		3641.9	Bayou Bartholomew at Wilmot, Ark	1, 170	1925-58	1932	May 23	26.3	2,100	2.0
Bayou de Loutre near Laran, La. 1,645 1922. 1932. Apr. 26. 12. 78. Bayou de Loutre near Laran, La. 141 1966-58. 1946. May 2. 28. 30 Bayou de Loutre near Laran, La. 141 1966-58. 1946-8. 1957. Apr. 27. 28. 30 Bayou de Loutre near De Loutre, La. 362 1946-8. 19468. 1957. Apr. 27. 27. 28. Bayou de Loutre near Dubach, La. 385 1946-8. 19468. 1946. 28. 1945. 28. 1946. 28. 1946. 28. 1946. 28. 28. 30. 90 Cypress Creek near Vienna, La. 178 1946-8. 1946. 28. 1946. 28. 1946. 28. 1946. 28. 1946. 28. 1946. 28. 1145. 28. 22. 88 1946. 28. 1946. 28. 1145. 28. 1145. 28. 1145. 28. 1146. 28. 1146. 28. 1146. 28. 1146. 28. 1146. 28. 1146. 28. 1146. 28. 1146. 28. 1146. 28. 1146. 28. 1146. 28. 1146. 28. 1146. 28. 1146. 28. 1146. 28. 1146. 28. 1146. 28. 1146. 28. <td></td> <td>3642</td> <td>Bayou Bartholomew near Jones, La</td> <td>1, 187</td> <td>1955-58</td> <td>1956</td> <td>. May 21, 22</td> <td>28.24</td> <td>3, E. 3, 890</td> <td>* : :</td>		3642	Bayou Bartholomew near Jones, La	1, 187	1955-58	1956	. May 21, 22	28.24	3, E. 3, 890	* : :
Bayou de Loutre near Laran, La. 1, 646 1982-31, 1938-58. 1936 25.75.3 Bayou de Loutre near Laran, La. 141 1966-58 1957 Apr. 27 23.0 Bayou de Loutre near Laran, La. 302 1946-88 1957 Apr. 27 10.0 Bayou de Loutre near De Loutre, La. 68.9 1964-88 1967 Apr. 27 19.0 Bayou de Loutre near Dubach, La. 68.3 1964-88 1965 Apr. 27 45.08 Bayou D'Arbonne near Dubach, La. 68.3 1958-68 1965 Apr. 28 45.75 Middle Fork Bayou D'Arbonne near Bernice, La. 178 1940-68 Apr. 27 45.75 Middle Fork Bayou near Three Creeks, Ark. 46 1966-58 1965 Apr. 27 11.45 Corney Bayou near Lillie, La. 208 1966-58 1965 Apr. 27 11.5 Bayou D'Arbonne near Fullie, La. 1,470 1925-88 1965 Apr. 27 1.5 Bayou D'Arbonne near Fullie, La. 1,470 1926-58 1965 Apr. 27 1.5 Bay						7081	Apr. 26 Apr. 27	12.78	29, 500	12.4
Bayou de Loutre near Laran, La. 141 1966-58 1957 Apr. 27 20.29 Bayou de Loutre near De Loutre, La. 68.9 1946-58 1957 Apr. 27 10.02 Bayou de Loutre near De Loutre, La. 68.9 1946-58 1957 Apr. 27 10.02 Bayou de Loutre near Vienna, La. 68.9 1946-58 1957 Apr. 27 45.08 Bayou D'Arbonne near Dubach, La. 68.3 1940-58 1945 Apr. 27 45.08 Middle Fork Bayou D'Arbonne near Bernice, La. 180 1956-58 1957 Apr. 27 43.22 Cornie Bayou near Three Creeks, Ark. 180 1956-58 1957 Apr. 27 11.45 Chricey Bayou near Lillie, La. 46 1956-58 1957 Apr. 27 11.50 Bayou D'Arbonne near Farmerville, La. 208 1966-58 1957 Apr. 27 11.50 Bayou Desiard at Monroe, La. 1,470 1925-58 1957 Apr. 27 11.50 Boeuf River near Arkansas-Louisiana State line. 726 1946-58 1946 1946-58		3645	Bayou Bartholomew near Beekman, La	1,645	1932 1928-31, 1938-58	1932 1946		25.78	12, 400	
Bayou de Loutre near De Loutre, I.a. 302 1948-88 1957-88 Apr. 28 7 90. 72 Big Creek near Vienna, I.a. 68.9 1954-88 1954-88 1945 Apr. 27 45.08 Bayou D'Arbonne near Dubach, I.a. 63.3 1956-86 1955 Apr. 27 20.90 Cypress Creek near Unionville, I.a. 178 1940-88 1945 Apr. 27 45.08 Middle Fork Bayou D'Arbonne near Pernice, I.a. 180 1956-88 1945 Apr. 27 11.45 Cornie Bayou near Three Creeks, Ark 46 1966-88 1957 Apr. 27 11.55 Corney Bayou near Lillie, La. 208 1966-88 1945 Apr. 27 11.55 Bayou D'Arbonne near Farmerville, La. 1,470 1926-88 1945 Apr. 27 11.55 Bayou D'Arbonne near Farmerville, La. 1,470 1926-88 1946 Apr. 27 19.16 Bayou D'Arbonne near Farmerville, La. 1,470 1926-88 1946 Apr. 27 1946 Bayou D'Arbonne near Farmerville, La. 1,470 1925-88 1		3647		141	1956-58	1957	MBy 2	25.10 11.10 10.10	2,700 2,700	1.9
Big Creek near Vienna, La. 68.9 1954-58 1957 Apr. 27 45. 75 Bayou D'Arbonne near Dubach, La. 68.3 1940-58 1945 Apr. 27 45. 75 Cypress Creek near UnionVille, La. 178 1940-58 1945 Apr. 27 45. 75 Middle Fork Bayou D'Arbonne near Bernice, La. 180 1956-58 1957 Apr. 27 11.45 Cornie Bayou near Three Creeks, Ark 46 1956-58 1957 Apr. 27 11.55 Corney Bayou near Three Creeks, Ark 46 1940-58 1957 Apr. 27 11.55 Corney Bayou near Lillie, La. 208 1956-58 1957 Apr. 27 11.50 Bayou D'Arbonne near Farmerville, La. 1,470 1925-58 1957 Apr. 27 25. 20 Bayou D'Arbonne near Farmerville, La. 1,470 1926-58 1957 Apr. 27 19. 19. 25 Bayou Desiard at Monroe, La. 1,529 1946-58 1957 Apr. 27 19. 19. 25 Boeuf River near Arkansas-Louisiana State line. 728 1946-58 1946-58 <td< td=""><td></td><td></td><td>Bayou de Loutre near De Loutre, La</td><td>305</td><td>1948-58</td><td>1953</td><td></td><td>22.22</td><td>22,000</td><td></td></td<>			Bayou de Loutre near De Loutre, La	305	1948-58	1953		22.22	22,000	
Bayou D'Arbonne near Dubach, La. 355 1940-58 1945 Apr. 27 22.83 Cypress Creek near Unionville, La. 68.3 1953-68 1955 Apr. 27 42.72 Middle Fork Bayou D'Arbonne near Bernice, La. 178 1940-58 1945 Apr. 27 11.45 Comie Bayou near Three Creeks, Ark. 46 1956-58 1957 Apr. 27 11.55 Corney Bayou near Lillie, La. 208 1940-58 1945 Apr. 27 11.50 Little Corney Bayou near Lillie, La. 208 1966-58 1957 Apr. 27 11.50 Bayou D'Arbonne near Farmerville, La. 1,470 1925-58 1957 Apr. 27 18.30 Bayou D'Arbonne near Farmerville, La. 1,470 1925-58 1957 Apr. 27 18.30 Bayou D'Arbonne near Farmerville, La. 1,470 1925-58 1957 Apr. 27 18.30 Bayou D'Arbonne near Farmerville, La. 1,470 1925-58 1945 Apr. 27 19.50 Bayou D'Arbonne near Farmerville, La. 1,470 1925-58 1937 A		3649	Big Creek near Vienna, La	68.9	1954-58	1957	Apr. 20	45.75	3,280	
Cypress Creek near Unionville, La. 68.3 1953-88 1955 Apr. 27 43.52 Middle Fork Bayou D'Arbonne near Bernice, La. 178 1940-68 1945 Apr. 27 42.72 Cornie Bayou near Three Creeks, Ark 46 1956-68 1957 Apr. 27 11.12.00 Three Creek near Three Creeks, Ark 46 1956-68 1957 Apr. 27 11.2.00 Corney Bayou near Lillie, La. 208 1940-88 1945 Apr. 27 11.5.8 Bayou D'Arbonne near Farmerville, La. 1,470 1925-58 1957 Apr. 27 9.19 Bayou D'Arbonne near Farmerville, La. 1,470 1925-58 1957 Apr. 27 9.19 Bayou D'Arbonne near Farmerville, La. 1,528 1980-68 1945 Apr. 30 11.52 Bayou D'Arbonne near Arkansas-Louisiana State line. 738 1946-68 1946 1946 Boeuf River near Arkansas-Louisiana State line. 738 1946-68 1946 1946 1946 Boeuf River near Oak Grove, La. 1,052 1946-68 1946 1946		3650	Bayou D'Arbonne near Dubach, La	355	1940–58	1945	Apr. 21	\$ 22 5 8 88 8	23,400	0. 19
Middle Fork Bayou D'Arbonne near Bernice, Ia. 178 1940-88 1945 Apr. 27 11.450 Cornie Bayou near Three Creeks, Ark. 46 1956-88 1957 Apr. 27 11.2 00 11.2 00 Three Creek near Three Creeks, Ark. 46 1956-88 1945 Apr. 27 11.5 0		3651	Cypress Creek near Unionville, La	63.3	1953-58	1955	Apr. 20	5.55 5.52 5.52 5.52 5.53	19, 2 00 2, 200 500	0.1
Cornie Bayou near Three Creeks, Ark. 180 1956-58 1957 Apr. 27 15 20 Three Creek near Three Creeks, Ark. 46 1956-58 1957 Apr. 27 15 50 Corney Bayou near Lillie, La. 208 1940-58 1945 Apr. 27 25. 20 Bayou D'Arbonne near Farmerville, La. 1,470 1925-58 1957 Apr. 28 44.5 Bayou D'Arbonne near Farmerville, La. 1,470 1925-58 1967 Apr. 28 44.5 Bayou D'Arbonne near Farmerville, La. 1,5298 1930-58 1966 May 20, 21 77.2 86 Ouachita River near Arkansas-Louisiana State line 785 1946-58 1946 May 22 56. 45 Boeuf River near Oak Grove, La. 1,052 1946-58 1946 38,96 50.45		3655	Middle Fork Bayou D'Arbonne near Bernice, La	178	1940-58	1945	Apr. 21	11.45	10,500	1.0
Three Creek near Three Creeks, Ark. 46 1956-58 Corney Bayou near Lillie, La. 208 1960-58 Little Corney Bayou near Lillie, La. 208 1960-58 Little Corney Bayou near Lillie, La. 208 1960-58 Bayou D'Arbonne near Farmerville, La. 1,470 1925-58 Duachita River at Monroe, La. 208 1960-58 1967 Apr. 26 Apr. 26 Apr. 27 Apr. 28 39 19 44,5 1967 Apr. 28 44,5 45,7 Apr. 28 1968 May 20, 21 77. 32 May 22 Boeuf River near Arkansas-Louisiana State line 785 1946-58 Boeuf River near Oak Grove, La. 1,052 1946-58 1948 May 6- 1,052 1946-58 1948 May 6- 1,052 1946-58 1948 May 6- 1,052 1946-58		3658		180	1956-58	1957	Apr. 21	15 12 90	6,440	
Corney Bayou near Lillie, La. 462 1940-58 1946 Apr. 27 18. 20 Liftite Corney Bayou near Lillie, La. 208 1956-58 1957 Apr. 27 25. 20 Bayou D'Arbonne near Farmerville, La. 1,470 1925-58 1927 Apr. 27 25. 20 Bayou D'Arbonne near Farmerville, La. 1,470 1925-58 1946 Apr. 30 44. 5 Bayou D'Arbonne near Farmerville, La. 15,298 1933-58 1946 May 20, 21 771. 28 Ouachita River near Arkansas-Louisiana State line 785 1946-58 1948 1948 22. 8 Boeuf River near Oak Grove, La. 1,052 1946-58 1948 1948 22. 8		3659	Three Creek near Three Creeks, Ark	46	1956-58	1957	Apr. 26	15.5.82	1,450	6 2
Little Corney Bayou near Lillie, La. 208 1966-88. 1967-88. Apr. 28. 18.52 18.52 Bayou D'Arbonne near Farmerville, La. 1,470 1925-88. 1927 Apr. 28. 16.52 Bayou Desiard at Monroe, La. 15,298 1932-88. 1946 May 20, 21. 771.32 Boeuf River near Arkansas-Louisiana State line. 785 1946-68. 1948 May 22. 50.45. Boeuf River near Oak Grove, La. 1,052 1946-58. 1946-68. 1948 1948		3660	Corney Bayou near Lillie, La	462	1940–58	1945	Apr. 20	18.20	17,200	9
Bayou D'Arbonne near Farmerville, La. 1,470 1926-58 1926-58 44.5 44.5 44.5 72.86 44.5 72.86 44.5 72.86		3662		208	1956–58	1957	Apr. 21	9.19	4, 660	9 6
Bayou Desiard at Monroe, La. 16,298 1939-58 1946 May 20, 21 77.32 Ouachita River at Monroe, La. 15,298 1982-68 1945 May 22 50,42 Boeuf River near Arkansas-Louisiana State line 785 1946-58 1946 8 1948 Boeuf River near Oak Grove, La. 1,052 1946-58 1946 22,58			Bayou D'Arbonne near Farmerville, La	1, 470	1925–58	1927	Apr. 20	44.5	(E)	
Ouachita River at Monroe, La.		3665	Bayou Desiard at Monroe, La		1939–58	1946	Mor 90 91	7.72.88	DE:	
Boeuf River near Arkansas-Louisiana State line		3670	Ouachita River at Monroe, La	15, 298	1932–58.	1932 1945	May 99	50.42	101,000	
1,052 1946-58. 1948 May 6		3677	Boeuf River near Arkansas-Louisiana State line	785	1946-58	1948	May 23	50.45 22.8	(i)	
	•		Boeuf River near Oak Grove, La	1,052	1946–58	1948	May 6	7 89.6 6 6	3 3 3	

See footnotes at end of table.

Table 1.—Flood stages and discharges, Louisiana and adjacent States—Continued

		IABLE 1.—Trood stages and discranges, Louistand and adjacent Braces—Colleman	schur yes,	Louisiana ana aaja	certe peac	esconminan			
						Maximum floods	S		
Z O	Permanent station	Stream and place of determination	Drainage area	Prior to April 1958	158		Gage	Discharge	arge
	number		(sq mi)	Period	Year	April-May 1958 (Date)	height (ft)	Cfs	Ratio to Q2.33
			PART 7-	PART 7—Continued					
		Red River basin—Continued							
76		Boeuf River near Oak Ridge, La	1, 199	1946-58	1947	7	79.8	Đ	
36	3680	Boeuf River near Girard, La	1,226	1927 1938–58	1927	May 5	80. 52 29. 5 18. 80	2,970 2,970	
96	3685	Big Colewa Bayou near Oak Grove, La	3	1940-58	1947 1951 1955	May 2. May 6.	19.31 7.95.5 7.95.22	3,070	
26		Big Creek near Holly Ridge, La	171	1940-58	1947	May 1. May 5.	7 91. 93	1,040	
86		Bayou LaFourche cutoff near Oak Ridge, La	1	1947–58	1947	May 2		: ::::::::::::::::::::::::::::::::::::	
66		Bayou LaFourche near Irwin Lake, La	9	1948-58	1955	May 9	888	DE6	
100		Bayou Galion near Oak Ridge, La	42	1941–58	1947	Ann 97	13.8	: ::::::::::::::::::::::::::::::::::::	
101	3690	Bayou La Fourche near Crew Lake, La	361	1938–58	1955	May 2	25.28	20,800	
102	1	Tensas Bayou near Transylvania, La	88	1941–58	1946	May 6.	27.50	£ 5	
103		Tensas Bayou near Alsatia, La	141	1946–58	1948	May 2	186	DE:	
104	3695	Tensas River at Tendal, La	309	1927	1927 1948 1948	141.8y 4	34.02	(1) 4, 610	
105	3697	Вауои Масоп пеаг Кіївошпе, Га	504			May 1 May 2 May 5	23.07	3,900	

				-)				
(1) (1) (1) 5, 460 4, 760			(1) 74,000	36, 400 (9) 76, 000	36,000 (9) 75,600	88, 90 (e) 88, 000 (b) 000 (c) 000	12, 900 (9) 138, 000 53, 500	he perlod.
24.7 23.2 37.5 25.68			25.25 7.25.06 7.06	24. 37	8888 8888	######################################	21. 36 44. 16 39. 90	Aximum of t
May 5.			90	Apr. 20	Apr. 30	Apr. 28	Apr. 28 May 3	Peak discharge of this flood not necessarily maximum of the period. Blevation in feet, at site 1,500 ft upstream. May have reached 27 ft. Dally mean discharge. Regulated since 1926. Maximum stage known since at least 1930. Maximum stage known since at least 1890.
1947 1882 1947 1953			19 43 1967	1943 1943 1945	1945 1945	1945 1945	1945 1945	of this floc t, at site 1, ed 27 ft. harge. 1926. known si
1946-68 1882 1985-68	PART 8		1900–1958.	1915-58 1939-58	1895–1958 1924–26, 1939–58	1905–58 1939–58	1914-58. 1932-58.	Peak discharge of this flood not necessarily 10 Elevation in feet, at site 1,500 ft upstream. 11 May have reached 27 ft. 12 Daily mean discharge. 13 Regulated since 1925. 14 Maximum stage known since at least 1890. 15 Maximum stage known since at least 1880.
582 78 2	PA		965	1,445	286	236	2,846	
Bayou Macon near Oak Grove, LaBayou Macon near Delhi, La		Sabine River Basin	Sabine River near Emory, Tex	Sabine River near Mineola, Tex	Lake Fork Sabine River near Quitman, Tex	Big Sandy Creek near Big Sandy, Tex	Sabine River near Gladewater, Tex	1 Not determined. 2 Does not melude 2,800 sq mi of upper Tallahatchie and Yocona Rivers. 3 Doeserved. 4 Includes drainage area of Clear Creek. 5 About 3 ft higher than that of May 5, 1958 at site 6 miles upstream. 6 Agos sq mi above Denison Dam is noncontributing. 7 Elevation in feet. 8 Contents in thousands of acre-feet.
3700			0175	0185	0100	0195	0500	Not determined. Does not meinde a Observed. Induction of the first of
106			108	109	110	111	112	1 Not 2 Doe 3 Obs 4 Incl 5 Abo 7 Eler 8 Con

FLOOD-CREST STAGES

Records of flood-crest stages (table 2) were collected by the Geological Survey at sites generally located by landline locations and referenced to prominent physical features.

Flood-crest data for the Ouachita River (table 3) were furnished by the Corps of Engineers. The points are between Mount Ida, Ark., and Acme, La., and are identified by river mileage above the mouth of the Black River. A similar tabulation (table 4) is given for the Red River from the mouth of Barkman Creek, Tex., to Torras, La.

Table 2.—Flood-crest stages in Louisiana and Mississippi

Stream and location	Date	Elevation (feet)
Pearl River Basin		
Tallahaga Creek, in NE¼ sec. 4, T. 13 N., R. 12 E., Choctaw meridian, at bridge on State Highway 15, ¼ mile upstream from Gulf, Mobile and Ohio Railroad bridge and 1¼ miles north of Noxapater, Miss	April 30	¹ 91. 11
Purple Creek, in NW¼ sec. 8, T. 6 N., R. 2 E., Choctaw meridian, at Colonial Country Club, 1½ miles upstream from mouth, and 2½ miles southeast of Tougaloo, Miss-Hanging Moss Creek, in NE¼ sec. 13, T. 6 N., R. 1 E., Choctaw meridian, at bridge on new U.S. Highway 51, 1 mile	May 5	1 96. 76
upstream from Whiteoak Creek and 2 miles upstream from mouth. Hanging Moss Creek tributary, in NE¼ sec. 11, T. 6 N., R. 1 E., Choctaw meridian, at bridge on U.S. Highway 51, 1	May 4	1 96. 84
mile upstream from mouth and 1.3 miles southwest of Tougaloo, Miss- Eubanks Creek, in SE¼NE¼ sec. 26, T. 6 N., R. 1 E., Choctaw meridian, at bridge on U.S. Highway 51 in north Jackson, Miss., 1,700 ft downstream from Crane Creek, 0.4 mile upstream from Lakeland Drive, and 1 mile upstream from mouth	do	1 94. 43 271. 96
Town Creek, in NW¼SW¼, sec. 3, T. 5 N., R. 1 E., Choctaw meridian, at bridge on Gallatin street in Jackson, Miss., and 300 ft upstream from Illinois Central Railroad bridge Lynch Creek, in NE¼SW¼, sec. 8, T. 5 N., R. 1 E., Choctaw meridian, at culvert on U.S. Highway 80 in Jackson, Miss., 1.3 miles upstream from Illinois Central Railroad bridge	do	274. 32
and 2.3 miles upstream from mouth	do	280. 17
Otuckalofa Creek, in SW¼NE¼, sec. 8, T. 11 S., R. 4 W., Chickasaw meridian, at bridge on State Highway 7, 0.9 mile south of Water Valley, Miss., and 5.2 miles above		
mouth	April 29	1 24. 59
of Batesville, Miss See footnote at end of table.	April 28	225. 76

Table 2.—Flood-crest stages in Louisiana and Mississippi—Continued

Stream and location	Date	Elevation (feet)
Yazoo River Basin—Continued		· · · · · · · · · · · · · · · · · · ·
Fannegusha Creek, in NW¼NE¼ sec. 28, T. 15 N., R. 1 E., Choctaw meridian, at bridge on county road, 1 mile north of Howard, Miss., and 3.2 miles southeast of Tchula, Miss. Piney Creek, in NE¼ sec. 10, T. 12 N., R. 2 W., Choctaw meridian, at bridge on U.S. Highway 49 E., 75 ft upstream from Illinois Central Railroad bridge, 3 miles northeast of north city limits of Yazoo City, Miss. Martins Creek, in NE¼ sec. 10, T. 12 N., R. 2 W., Choctaw meridian, at bridge on U.S. Highway 49E., 75 ft upstream from Illinois Central Railroad bridge, ½ mile upstream from mouth, and 2.7 miles northeast of north city limits of Yazoo City, Miss.		139. 72 111. 18 110. 12
Big Black River Basin		
Doaks Creek, in NE¼ sec. 9, T. 10 N., R. 3 E., Choctaw meridian, at bridge on U.S. Highway 51, 3½ miles upstream from mouth, and 8½ miles north of Canton, MissBachelor Creek, in NW¼ sec. 19, T. 9 N., R. 3 E., Choctaw meridian, at bridge on U.S. 51 truck route at Canton High	May 2	208 . 7 3
School, Canton, Miss	April 29	219. 57
ton, Miss., and 3½ miles upstream from mouth	do	225. 41
west of Flora, Miss	May 2 May 1	188. 39 138. 59
Red River Basin	May 1	100, 00
Bayou Dorcheat at bridge on State Highway 160, 1.8 miles upstream from Black Bayou and 4 miles northeast of Cot-		
ton Valley, La	April 29	¹ 46. 74
of Leton, La., and 1 mile downstream from Sand Creek Brushy Creek at bridge on State Highway 7, 2.4 miles south	April 26	212. 84
of Hortman, La	do	173. 94
miles southeast of Haughton, La	April 29	195. 37
Bayou D'Arbonne at bridge on U.S. Highway 79, 0.2 mile	May 4	172. 66
north of Homer, La., and 0.5 mile upstream from Beaver Branch	April 26	207. 15
southwest of Colquitt, La	do	1 49. 68
miles southwest of Collinston, La	May 1	75. 0 9
Lyon Bayou at bridge on State Highway 582, 0.5 mile southeast of Forest, La	do	89. 06
Bayou Macon on right bank at end of Parish road, 2.2 miles northeast of Floyd, La.	May 6	85. 87

¹ Gage height referred to an arbitrary datum.

Table 3.—Flood-crest elevations on Ouachita River (Furnished by Corps of Engineers)

Designation of gage	Miles above mouth of Black River (1939)	Date May 1957	Elevation (feet)
Mt. Ida, Ark	553. 4	3	677. 18
Blakely Dam (headwater)	487. 0	6	583, 57
Blakely Dam (tailwater)	486. 9	2	402. 07
Below Blakely Dam	486. 8	$-\bar{2}$	402.08
Carpenter Dam (headwater)	467. 9	$\overline{2}$	400. 76
Carpenter Dam (tailwater)	467. 9	5	308. 29
Remmel Dam (headwater)	455. 9		308. 07
Remmel Dam (tailwater)	455. 9	3	271. 24
Malvern, Ark	450. 1	3 2 3 2	249. 21
Arkadelphia, Ark	420. 6	3	187. 95
H.W. No. 60	397. 7		153, 51
H.W. No. 61	380. 0		133, 15
Camden, Ark	354. 1	5	115, 56
Below Camden, Ark	348. 5	ĕ	113. 31
H.W. No. 62	329. 1		104. 85
H.W. No. 63	309. 1		98. 90
Lock and Dam No. 8	297. 9	8	95. 5
H.W. No. 64	287. 2	l	91. 20
Lock and Dam No. 6	239. 4	14-16	87. 1
Lock and Dam No. 5	208. 3	21, 22	85. 8
Monroe, La	183. 7	23	81. 86
Lock and Dam No. 4	178.1	23, 24	80. 57
Buckhorn Bend, La.	175. 9	23	80. 23
Lock and Dam No. 3	134. 1	25	71. 18
Stafford Point Landing, La.	80. 9	30, 31	58. 2
Lock and Dam No. 2	73. 3	28-31	56. 4
Black River:			
Jonesville, La	1 56. 3	29	54, 83
Acme, La		23, 24	51. 1
,		1	

¹ River miles as of 1949.

Table 4.—Flood-crest elevations on lower Red River (furnished by Corps of Engineers)

Designation of gage	Miles above mouth	Date May 1957	Elevation (feet)
H.W. No. 77, Mouth of Barkman Creek, Tex	434. 8 432. 0 429. 5 424. 7 417. 5 412. 8 410. 4 405. 0 401. 5 398. 5 392. 2 387. 0 379. 7	6 6 6 6 6 6 7 7	276. 3 274. 8 272. 6 268. 9 263. 7 260. 9 254. 4

Table 4.—Flood-crest elevations on lower Red River (furnished by Corps of Engineers)—Continued

Ziegviicoro) Continuou			
Designation of gage	Miles above mouth	Date May 1957	Elevation (feet)
Garland City, Ark	372. 0	7	231, 6
H.W. No. 65	366. 9	7	220. 5
H.W. No. 64 H.W. No. 63	360. 8 355. 5	7	220. 5 220. 5
H.W. No. 62	353. 0	· •	220. 5
H.W. No. 61	347. 8		
H.W. No. 60	346. 7	1 8	208. 9
H.W. No. 59	344. 8	18	207. 4
H.W. No. 58	338. 3		
H.W. No. 57	336. 0		
Spring Bank, Ark	334. 6	7, 8	198. 9
H.W. No. 56	331. 4		
H.W. No. 55	327 . 0		
H.W. No. 54	326 . 5	18	193. 4
H.W. No. 53	323. 2		
H.W. No. 52	318. 9	7	189. 9
Millers Bluff, La.	317. 8 315. 5	· ' '	109. 9
H.W. No. 51 H.W. No. 50	309. 0	19	182. 0
H.W. No. 49	303. 4	19	180. 1
H.W. No. 48	297. 0		100. 1
H.W. No. 47	291. 4	19	172. 9
H.W. No. 46	286. 7		
H.W. No. 45	282 . 3	19	168. 7
Shreveport, La	276 . 9	8	165. 2
H.W. No. 44	273 . 6	19	161. 4
H.W. No. 43	269 . 7		
H.W. No. 42	264 . 9	19	158. 4
H.W No. 41	259. 8	19	155. 5
H.W. No. 40	255. 0	19	153. 2 152. 8
H. W. No. 39 H. W. No. 38	252. 0 245. 3	8	149. 6
H. W. No. 37	239. 2	8	147. 4
H. W. No. 36	235. 0	9	145. 4
H.W. No. 35	230. 9	1 10	142. 3
H.W. No. 34	227. 1	ğ	140. 8
H.W. No. 33	222. 4	9	137. 6
Coushatta, La	217. 6	9	134. 3
H. W. No. 32	2 16. 4		
H.W. No. 31 H.W. No. 30	2 11. 2	10	131. 1
H.W. No. 30	208. 9	10	130. 7
H.W. No. 29	204. 4	10	128. 9
H.W. No. 28	197. 3	10	125. 1
H.W. No. 27	190. 3	10	121. 1 119. 7
H. W. No. 26	185. 8	$\begin{array}{c} 10 \\ 11 \end{array}$	117. 0
Grand Ecore, La	181. 4 176. 9	11	115. 9
H. W. No. 24	170. 5	11	113. 4
H. W. No. 23	166. 0	11	111. 4
H.W. No. 22	162. 3	12	109. 4
H.W. No. 21	158. 0	12	108. 2
H. W. No. 20	155. 2	12	106. 8
H.W. No. 19	149. 5	12	104. 9
H.W. No. 18	142. 1	12	102. 2
See footpote at and of table			

See footnote at end of table.

Table 4.—Flood-crest elevations on lower Red River (furnished by Corps of Engineers)—Continued

Miles above mouth	Date May 1957	Elevation (feet)
- 139. 1 - 134. 5 - 128. 4 - 123. 9 - 119. 7 - 113. 4 - 103. 2 - 98. 4 - 91. 6 - 86. 4 - 77. 2 - 73. 2 - 69. 6 - 66. 0 - 60. 7 - 58. 1 - 55. 3 - 51. 0 - 46. 4 - 46. 4 - 422. 2	12 13 13 13 13 13 14 14 14 14 14 14 14 14 14 14 20 23, 24 22–25 24–26	100. 8 99. 2 94. 6 92. 8 89. 8 88. 4 84. 76. 4 74. 9 73. 3 70. 7 68. 4 64. 0 61. 2 58. 7 55. 9 51. 1 48. 5 45. 4
- 1. 0	24	46. 8
	above mouth 139. 1 134. 5 128. 4 123. 9 119. 7 113. 45 108. 5 108. 2 98. 4 91. 6 86. 4 91. 6 86. 0 77. 2 73. 2 69. 6 66. 0 66. 7 58. 1 55. 3 51. 0 46. 4 34. 4	above mouth

¹ Levels to water surface were run on this date; crest probably occurred 1 day earlier.

MAGNITUDE AND FREQUENCY OF FLOODS

The Geological Survey expresses the frequency of a flood in terms of its recurrence interval, which is defined as the average interval in which a flood of a given magnitude will be equaled or exceeded as an annual maximum discharge. The probability of the occurrence of a given flood is the reciprocal of its recurrence interval. For example, a flood with a recurrence interval of 25 years (a 25-year flood) has a 4 percent chance, and one with a 50-year recurrence interval has a 2 percent chance of being equaled or exceeded in any one year.

The mean annual flood is indicative of the flood characteristics of a drainage basin and is a good index of the geographical variation of flood flows. The mean annual flood is difficult to determine arithmetically because records of flood discharges are comparatively short, but the distribution of annual maximum discharges does approach the distribution implicit in the theory of extreme values. On the basis of this theory, the mean annual flood (the mean of an infinitely long series of annual maximum floods) is obtained by reading from a graph, visually fitted to a plot of annual floods versus recurrence intervals, the annual flood corresponding to a recurrence interval of

2.33 years and can be determined with acceptable accuracy from a short period of record.

Relations of peak discharge to drainage area for various recurrence intervals (figs. 12-14) have been tentatively defined for part of the area included in this report (written communication, Patterson, 1960).

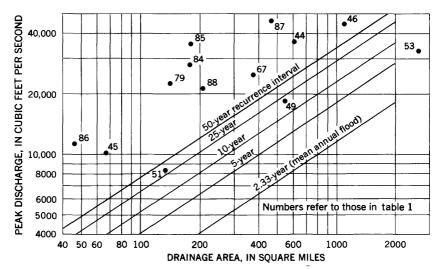


FIGURE 12.—Relation of peak discharge to drainage area for various recurrence intervals at selected points in Arkansas and Louisiana.

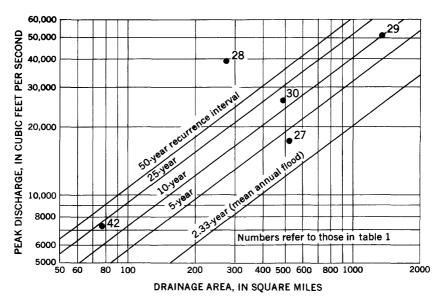


FIGURE 13.—Relation of peak discharge to drainage area for various recurrence intervals at selected points in Louisiana and Texas.

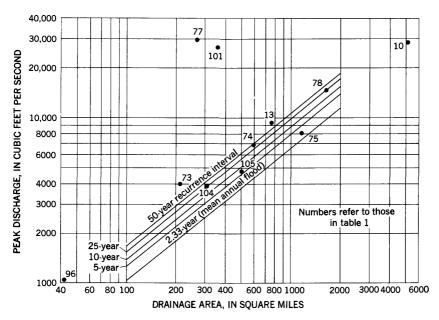


FIGURE 14.—Relation of peak discharge to drainage area for various recurrence intervals at selected points in Arkansas, Louisiana, and Mississippi.

Each figure is for a different area represented by the stream-gaging station data plotted. These figures provide a comparison of the peak discharges during the floods of April–May 1958 with those for several selected recurrence intervals. Table 5 supplements figures 12–14 and shows ratios and recurrence intervals for several streams from four additional parts of the flood area.

Table 5.—Other outstanding flood discharges during April-May 1958

Stream and location	Discharge (cfs)	Rati	Recurrence	
		Mean an- nual flood	50-year flood	interval (years)
Boggy Creek near Daingerfield, Tex	28, 900	10. 1	2. 2	(1)
Kelly Bayou near Hosston, La.	4, 460	2. 56	. 86	25
Black Bayou near Gilliam, La	17, 700	4. 92	1.65	(1)
Twelvemile Bayou near Dixie, La	38, 400	2. 69	. 90	31
Muddy Fork Creek near Murfreesboro,		1		
Ark	35, 100	2. 85	1. 19	(1)
Antoine Creek at Antoine, Ark	35, 500	2. 23	. 93	34
Moro Creek near Fordyce, Ark	26, 800	4. 22	1. 76	(1)
Saline River near Rye, Ark	70, 500	2.04	. 85	23

¹ Much greater than 50 years.

Peak discharges of this flood along the main stem of the Red River, after adjustment for storage in Lake Texhoma, have recurrence intervals of 5 to 6 years at Arthur City, Tex., and Index, Ark., about 17 years at Fulton, Ark., and 29 years at Shreveport, La. The peak discharge of about 97,200 cfs on Ouachita River at Monroe, La., has a 45-year recurrence interval. In Mississippi, the recurrence interval for the maximum discharge on Big Black River near Bovina is 15 years.



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